

September
1953

COMMERCIAL FERTILIZER

Year Book



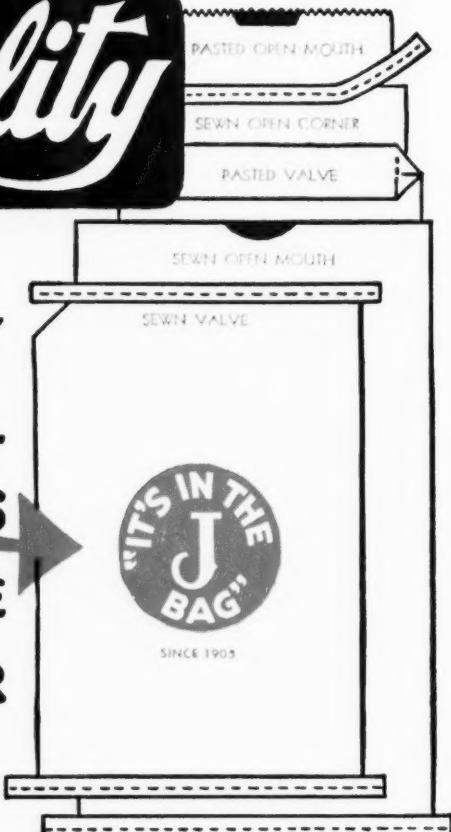
*Trade mark of Allied Chemical & Dye Corporation.

40 Rector Street, New York 6, N.Y.

RICHMOND 19, VA. • HOPEWELL, VA. • SOUTH POINT, OHIO • ATLANTA 3, GA. • COLUMBIA 1, S.C. • SAN FRANCISCO 3, CAL.

Jaite Quality

**HEAVY-DUTY
MULTI-WALL
PAPER BAGS
GO ALL THE
WAY TO DELIVER
THE GOODS**



CUSTOM
BUILT
FOR
YOUR
PRODUCT

OFFERING DEPENDABLE
PROTECTION FOR YOUR
PRODUCT

Jaite Bags are made out of Super-Quality "Multi-Wall" Kraft Paper, including Moisture-Proof Sheets when necessary. In many Sewn and Pasted Types.

THE JAITE COMPANY
DIVISION OF NATIONAL CONTAINER CORP.
JAITE, OHIO



Taproot OF SUCCESS...

Just as *quality* in the fertilizers you manufacture assures growth for the farmers' crops, just as surely does that reputation for *quality* assure growth for the manufacturers' business. For the very taproot of success in any business is the insistence upon quality in the goods produced.

There is no higher quality source of nitrogen for your Fertilizers than SMIROW TANKAGE. It is 100% natural organic. It is 90% water insoluble and 90% available. SMIROW TANKAGE is always in perfect mechanical condition . . . another mark of quality. It is uniform both in color and in texture.

To feed this taproot of the successful growth of your operation see that correct proportions of SMIROW TANKAGE assure outstanding quality in your goods.

To help make your sales grow,
write for samples and prices.

**SMIROW
TANKAGE**
MAKES PLANTS GROW



SMITH-ROWLAND COMPANY
NORFOLK, VIRGINIA • CHEMICAL, ILLINOIS

St. Gobain Process to Manufacture Granulated Complete Nitrophosphate Fertilizers



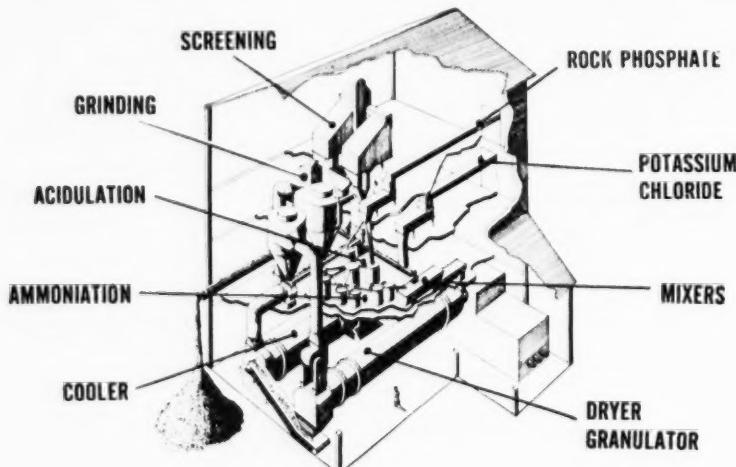
A simplified fertilizer plant which replaces the manufacture of superphosphate ammonium nitrate, and mixing of N-P-K constituents by one single process.

Phosphate rock is treated by ammonia, phosphoric acid, and nitric or sulfuric acid, or by both nitric and sulfuric, depending on the required $N_2P_2O_5K_2O$ formula of the finished product. The manufactured fertilizer is in the form of homogeneous granules, the size of which can be set in accordance with local requirements. Several N-P-K formulae can be produced in the same plant using the same equipment.

The process has been successfully used on a large industrial scale in France for the last 11 years. Some of the other formulae the existing plants produce are:

N%	P ₂ O ₅ %	K ₂ O	
10	10	17	(sulfo-nitric acidulation)
11	11	11	" " "
10	15	20	(Phospho-nitric acidulation)
12	15	18	" " "
12	12	20	" " "
14	14	14	" " "
10	20	20	" " "

Details on process, required capital investment, and operating costs are available from: General Industrial Development Corporation.



GENERAL INDUSTRIAL DEVELOPMENT CORP.

270 Park Avenue, New York 17, N. Y.

Agents for the Compagnie de St. Gobain

YEAR BOOK, SEPTEMBER, 1953



From the Tree to the Bag . . .

Our Product is Supervised Throughout by Our Own Trained Personnel

SALES OFFICES:

...CHMOND, VIRGINIA
BALTIMORE, MARYLAND
BUFFALO NEW YORK

CHICAGO, ILLINOIS
KANSAS CITY, MISSOURI
LOUISVILLE, KENTUCKY

MINNEAPOLIS, MINNESOTA
NEW YORK, NEW YORK
OMAHA, NEBRASKA

Multwall Bag Division ALBEMARLE PAPER MANUFACTURING COMPANY, RICHMOND, VA.

COMMERCIAL FERTILIZER

YEAR BOOK

1953 EDITION

Chicago Representative
ELON A. ABERNETHY
1323 S. Michigan Ave.—Room 400
Phone Harrison 7-3655

West Coast Representative
M. A. CALDWELL
2267 W. 24th St., Los Angeles, Cal.
Phone REPUBLIC 1-3050

ESTABLISHED 1910

September, 1953

Vol. 87, No. 3A

Published by

WALTER W. BROWN PUBLISHING CO., INC.
75 Third St. N. W., Atlanta, Georgia Phone Atwood 4160

ERNEST H. ABERNETHY, President

BRUCE MORAN, Editor V. T. CRENSHAW, Business Manager

COMMERCIAL FERTILIZER entered as second class matter, October 12, 1910, at the post office at Atlanta under the Act of March 3, 1879. Published monthly except semi-monthly in September, by Walter W. Brown Publishing Co., Inc. 75 Third St., N. W., Atlanta, Georgia.

In This Issue

USDA Consumption Estimate for 1953-54	19
USDA Consumption Report for 1951-52	21
NFA Report, Fiscal Year 1952	37
Associations of the Industry	41
Fertilizer Control Officials	44
Agricultural Experiment Stations	48
Alphabetical List, Fertilizer Manufacturers	61
Geographical List, Fertilizer Manufacturers	75
Buyers Directory, Listing Offices, Products	129
Products Directory, Listing Sources	140
Index of Advertisers	164

MONTANSALPETER
AMMONIUM
SULPHATE
NITRATE
26% NITROGEN

supplies the 2 key forms
of nitrogen

Contains 6½% nitrate nitrogen — quick acting
for early, vigorous growth. Contains 19½%
ammonia nitrogen — slower acting for sus-
tained growth through to harvest time.

easy to use

Pelletized and properly sized for flow.
Easy to handle, ready to use for top dressing,
side dressing and irrigation.

now available

F.O.B. all regular Atlantic and Gulf ports,
shipped to the trade in even-weight bags.
Write us today for a sample and further infor-
mation.

Sole Distributors for
RUHR-STICKSTOFF AKTIENGESELLSCHAFT
Bochum, Germany

H.J. BAKER & BRO.

established 1850

600 Fifth Ave., New York 20, N. Y.

Branch Offices:

Maryland Trust Bldg., Baltimore, Md.
209 South LaSalle St., Chicago, Ill.
Savannah Bank & Trust Co. Bldg., Savannah, Ga.
501 Jackson St., Tampa, Fla.





you can count on!



**For Years, First Choice of Leading
Fertilizer Manufacturers**

ADVANTAGES OF FUR-AG

Fur-Ag has long been the first choice of leading fertilizer manufacturers—has thoroughly proved its commercial value. Fur-Ag is the inexpensive organic conditioner produced in volume by The Quaker Oats Company and shipped to you on schedule.

Available for Prompt Shipment the Year Around

Fur-Ag in bulk and in 50 or 65 pound bags is available in volume for prompt shipment on a 12-month basis at a stable price.

Low Cost, General Purpose Conditioner

Fur-Ag is an outstanding general purpose conditioner because it:

- Reduces bag set
- Permits earlier shipment of mixed goods
- Promotes drillability
- Keeps goods free flowing
- Provides bulk

Assimilated in Batch

Fur-Ag does not segregate. It has exceptional blending properties and is quickly assimilated in the batch.

Sterilized

Fur-Ag is free from plant disease, insects and other contaminants because it is sterilized—a feature unique among organic conditioners.

Dark Color

Fur-Ag gives finished goods a rich dark color.

Find out Today! If you are not already using Fur-Ag, we suggest that you try a carload. Or, if you prefer—write us on your letterhead for complete information—Bulletin 127.



The Quaker Oats Company CHEMICALS DEPARTMENT • 345C The Merchandise Mart, Chicago 54, Illinois

**MAKE A BETTER
PRODUCT**

UDET F*

- Speeds up Processing
- Shortens Curing Time
- Prevents Caking

a surfactant especially for...
**• ACIDULATION • AMMONIATION
• FERTILIZER DRY MIXING**

In acidulating phosphates, UDET F is most effective through addition to the cut-back water for 55-56 Baume' Sulphuric acid, and direct addition to Phosphoric and Nitric acids. UDET F also produces marked reduction of surface-tensions in ammoniation with Nitrogen solutions, and in fertilizer drymixing.

In all fertilizer processes UDET F assures thorough wetting and penetration to promote maximum contact between components.

TYPICAL UDET F RESULTS

**PRODUCTION
SPEEDED**

Gumming and sticking reduced, saving shutdown time. Operation smoother.

**MATERIAL-COST
CUT**

Higher absorption rate of N from solution results in "carry-over" and derivation of higher unit N in ammoniation.

**EASIER
HANDLING**

Soft piles eliminate blasting; screening and bagging time cut 40%.

**QUICKER
CURING**

Reduces time to complete reaction by as much as 90%; 3-4 days usually sufficient.

UNIFORMITY

Particle size and analysis improved.

BAG SETTING

Inhibited or ended altogether.

**OPERATING
PROCEDURE**

Unchanged in using UDET F.

COST

UDET F costs only pennies per pound. One ton of fertilizer conditioned by $\frac{1}{2}$ to $\frac{3}{4}$ lb.

*UDET 90-95F — a powder containing 90-95 percent active

*UDET 50F — a free flowing liquid containing 50 percent active

"ON-SCHEDULE" DELIVERIES

Stocks of UDET 90-95F and UDET 50F are now warehoused nation-wide to insure quick delivery.

Products using

UDET F

Superphosphate
Triplesuperphosphate
Muriate of Potash
Sulfate of Ammonia
Borax
Ammonium Nitrate
Insecticides
Mixed Fertilizer



For technical information,
delivery and prices, write:

**UNIVERSAL
DETERRGENTS, INC.**
P.O. Box 4091 East Long Beach Station
Long Beach, California

Want Proof?



then trust your
own eyes!

And you will know that Bemis color printing of brands on multiwall paper bags is bright, crisp, color-true . . . the kind that will boost the selling power of *your* brand.

Ask your Bemis Man to show you typical Bemis multiwall printing. Trust your own eyes.

Bemis

General Offices—St. Louis 2, Mo.
Sales Offices in Principal Cities



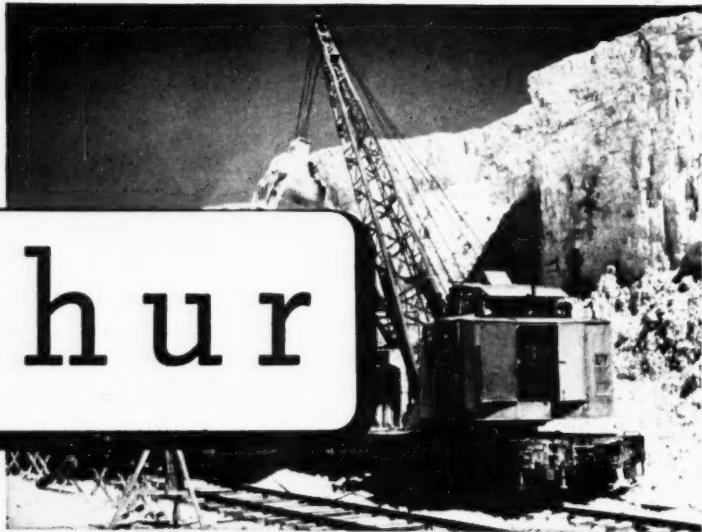


Producers of
Agricultural Grade
MURIATE OF POTASH
A dependable source of supply
for your Potash requirements.

POTASH COMPANY OF AMERICA
Carlsbad, New Mexico

*General Sales Office . . . 1625 Eye Street, N.W., Washington, D. C.
Midwestern Sales Office . . . First National Bank Bldg., Peoria, Ill.
Southern Sales Office . . . Candler Building, Atlanta, Ga.*

Sulphur



*Thousands of tons
mined daily,
but where does it all go?*

Did you ever have the misfortune on a steaming, sticky, sultry day to sit it out on a crowded parkway, bumper to bumper, waiting for traffic to clear? No doubt your thoughts were plenty sulphurous but probably not along the lines we have in mind.

We're thinking of the mineral Sulphur and its link with the automobile. Each car accounts for a substantial poundage of Sulphur, some estimates put it at around 25 pounds for the average car. Give or take 5 pounds, it shows that a tremendous tonnage of Sulphur is needed each year to put cars, buses and trucks on the road ready to operate. And don't forget the tire and battery replacements going on every day.

Sulphur enters the automobile picture through the tires, steel sheets, plated and plastic fittings, glass, battery acid and parts, copper tubing and wiring . . . all of which call for the use of Sulphur or its compounds in connection with their manufacture.

Can you wonder that Sulphur goes into industry just about as fast as the sulphur producers of the Gulf Coast Region can get it above ground and cooled preparatory to shipment?



Texas Gulf Sulphur Co.

75 East 45th Street, New York 17, N. Y.



Sulphur Producing Units: Newgulf, Texas • Moss Bluff, Texas

Spindletop, Texas • Worland, Wyoming

**Bigger yields for farmers
mean better business for you—**

**use
U·S·S Ammonium Sulphate
• for your high-nitrogen fertilizers**



● The trend today is toward high-nitrogen complete fertilizers such as the 8-8-8 and 10-10-10 grades. As more and more farmers discover for themselves how well these grades pay off, demand goes up and up.

You can cash in on this demand by giving special attention to your high-nitrogen grades. And be sure to use U·S·S Ammonium Sulphate to supply the nitrogen content. It's a dry, free-running material that gives you top performance, both in mixing and in application.

To fill your needs for U·S·S Ammonium Sulphate, ten plants and six sales offices are located strategically from coast to coast. For complete information, get in touch with the Coal Chemical sales office nearest you or write to United States Steel Corporation, 525 William Penn Place, Pittsburgh 30, Pa.

PRODUCING PLANTS

Clairton, Pa.
Gary, Ind.
Joliet, Ill.
Morrisville, Pa.

Lorain, Ohio
Cleveland, Ohio
Duluth, Minn.
Geneva, Utah

Fairfield, Ala.
Provo, Utah
Geneva, Utah

SALES OFFICES

New York, N. Y.
Cleveland, Ohio
Chicago, Ill.
Pittsburgh, Pa.
Fairfield, Ala.
San Francisco, Calif.

U·S·S AMMONIUM SULPHATE



UNITED STATES STEEL

2-1480

What do we know about your business?

When you have Fertilizer Plant needs



Extensive research and investigation of all the facts are necessary to make the building of a fertilizer plant economically sound. Many years of experience in the fertilizer industry have made Harte engineers cognizant of the over-all picture to be considered in fertilizer plant design. Realizing that certain fundamentals must be followed while specializing the design of each plant, all possible facts are studied and adapted to produce a sound, enduring investment.

If you plan to build a fertilizer mixing plant, or an associated plant, the Harte organization of specialists can handle your complete job or any part, from original design to operating plant. Under the Harte System all steps — site study, planning, architectural, engineering, purchasing, construction management — are integrated, assuring smooth-working continuity. Assuring a saving in time and money. In fertilizer plant planning there's no substitute for experience. Call in the Harte organization for a discussion of your plans. There's no obligation.

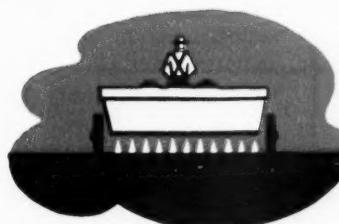
JOHN J. HARTE COMPANY | ENGINEERS
CONSTRUCTION MANAGERS

SPECIALISTS IN THE FOLLOWING PROCESSES: • Solvent Extraction Systems • Sulphuric Acid • Vitamin Recovery • Synthetic Detergents
• Insecticide Plants • Clay Processing • Mixed Fertilizer Plants • Paper Mills • Electrolytic De-Tinning • Lime and Cement
• Rubber Products • Glass • Explosives • Petrochemicals • Food Canning Plants • Cotton Mills • Industrial Warehousing
• Steam Generating & Power Plants • Milk By-Products • Naphthalene & Tar Plants

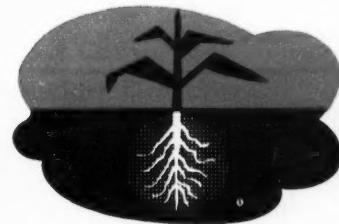
DAVISON GRANULATED Superphosphate 3 WAY CONTROL



STORAGE CONTROL—No caking or lumping while in storage.



APPLICATION CONTROL—No dusting or bridging; drills free and even.



FOOD CONTROL—Supplies plant food at a uniform rate.

Now it is possible for you to store superphosphate without fear of its caking . . . that is, if it is DAVCO GRANULATED SUPERPHOSPHATE. DAVCO Granulated Superphosphate will not become hard or caked . . . it is easier to apply in the field because there is no dusting or bridging over in the drill.

DAVCO Granulated Superphosphate gives complete coverage in the field . . . drilling freely and evenly . . . supplying each plant with a uniform quantity of nutrient phosphorus.

Get DAVCO Granulated Superphosphate . . . the superphosphate that gives you the added sales points through its 3-way control.

Progress Through Chemistry

THE DAVISON CHEMICAL CORPORATION



BALTIMORE 3, MARYLAND

PRODUCERS OF: CATALYSTS, INORGANIC ACIDS, SUPERPHOSPHATES, PHOSPHATE ROCK, SILICA GELS, SILICOFLUORIDES AND FERTILIZERS

YEAR BOOK, SEPTEMBER, 1953

TYPICAL ANALYSIS CHART

for Monsanto Soil Nutrient Chemicals

PROPERTIES	MONOAMMONIUM PHOSPHATE	DIAMMONIUM PHOSPHATE	MONOPOTASSIUM PHOSPHATE	PHOSPHORIC ACID 75%
Appearance	Crystals	Crystals	Crystals	Liquid
Containers	100-lb. bags 300-lb. fibre drums	100-lb. bags 300-lb. fibre drums	100-lb. bags 150-lb. kegs 350-lb. barrels	Tank cars 675-lb. barrels 170-lb. glass carboys
Mesh size % retained	12 mesh = 1.0%	12 mesh = 1.0%	16 mesh = 0.5%	
Mesh size Cumulative retained	#70 mesh 90.0% (through #70 mesh 10.0%)	#70 mesh 90.0% (through #70 mesh 10.0%)	#50 mesh 80.0% (through #50 mesh 20.0%)	
N	12.2	21.0	- 0 -	- 0 -
P205	61.6	53.8	51.6	54.5
K20	- 0 -	- 0 -	34.2	- 0 -

WATER-SOLUBLE PLANT NUTRIENTS

Fertilizer manufacturers capitalizing on the trend toward water-soluble fertilizers are invited to profit by Monsanto's increased production of Monoammonium Phosphate, Diammonium Phosphate, Monopotassium Phosphate, Phosphoric Acid 75%. Also applicable to dry formulations.

These new products can readily lead to new profits from high-analysis

plant foods which combine nitrogen, phosphorus, potash and, in many cases, herbicides and insecticides.

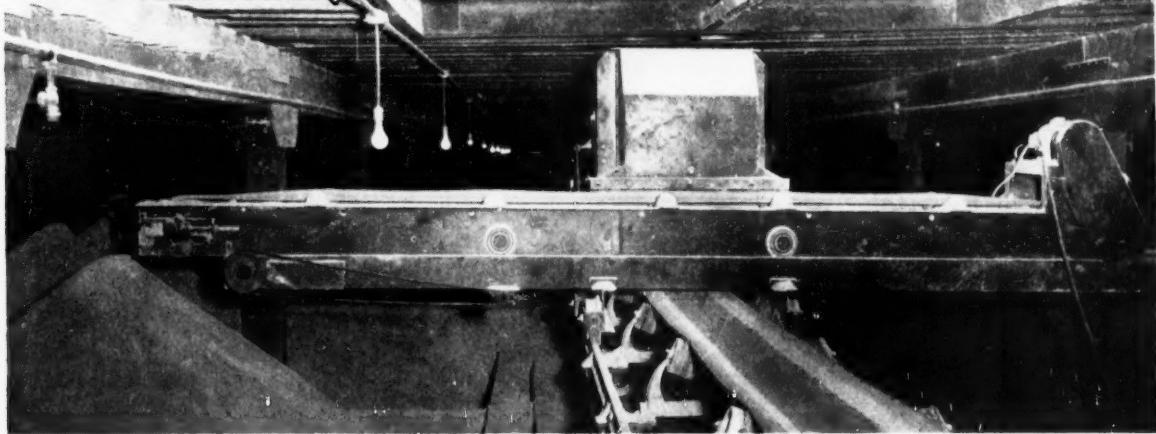
Typical analysis data for Monsanto Soil Nutrient Chemicals is given in the table above. For more information, contact any Monsanto District Sales Office, or write MONSANTO CHEMICAL COMPANY, Phosphate Division, 1700 South Second Street, St. Louis 4, Missouri.

DISTRICT SALES OFFICES: Birmingham, Boston, Charlotte, Chicago, Cincinnati, Cleveland, Detroit, Los Angeles, New York, Philadelphia, Portland, Ore., San Francisco, Seattle. In Canada, Monsanto Canada Limited, Montreal.



Storage Costs Cut!

BY CONTINENTAL CONVEYORS



CONTINENTAL EQUIPMENT is designed to cut your costs. Shown is an integral combination traveling tripper and reversing shuttle designed for increased storage capacity with existing facilities. Reduced costs per ton of storage and improved working conditions resulted. Let CONTINENTAL ENGINEERS solve your Conveying, Elevating and Power Transmission problems.



Continental Products

Belt Conveyors
Bucket Elevators
Apron Feeders
Belt Feeders
Heavy Manganese Feeders
Flight Conveyors
Chain Conveyors
Screw Conveyors
Screw Elevators
V-Belt Drives
Steel Pulleys
Gears and Reducers
Conveyor Belts
Power Transmission Equipment

CG 5401

INDUSTRIAL DIVISION
CONTINENTAL GIN COMPANY
BIRMINGHAM, ALABAMA

ENGINEERS



ATLANTA • DALLAS • MEMPHIS • NEW YORK



MANUFACTURERS

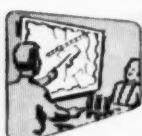
THE SACKETT PLANT PACKAGE

FOR OVER 50 YEARS WE HAVE SERVED ONLY THE FERTILIZER INDUSTRY.
FOR 15 WE HAVE BUILT COMPLETE DRY MIXING AND SUPERPHOSPHATE PLANTS.

THIS IS WHAT WE MEAN BY COMPLETE.

1 Property Selection

We assist you in the important matter of site selection for your new plant including determination of subsoil conditions.



2 Plant Investment

We tell you before the contract is signed exactly how much the plant will cost. We protect you against unknown "cost plus" work.



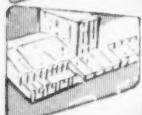
3 Plant Design

We *custom-design* the building and all production equipment to meet the particular needs of your area of distribution. Further, we leave no stone unturned to incorporate the highest possible degree of production efficiency based on our wealth of specialized "know-how."



4 Building Construction

We construct the building from foundations to roof using the best materials obtainable in each component part. We include all electric power and lighting required including a power room, in which are located all motor controls for protection against usual dust and moisture conditions.



5 Equipment Manufacture

We fabricate in our own shops production equipment of the very latest design. Upon arrival at the site, we install this equipment with highly skilled men under the supervision of thoroughly competent field engineers. Upon completion of this work, each component part is thoroughly tested prior to the plant's initial operation.



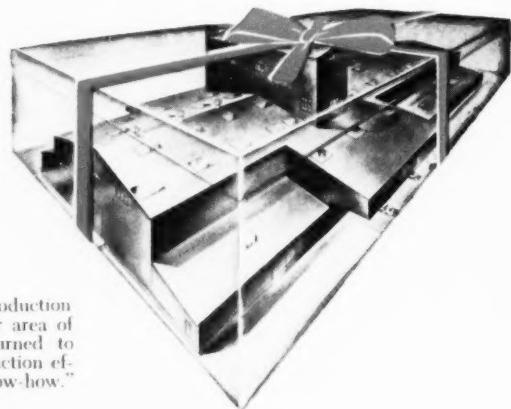
6 Guaranteed Performance

We guarantee the operating performance of the complete project both from a standpoint of hourly capacities as well as manufacturing costs covering each operational phase involved. In most every case, these guarantees are exceeded by a safe margin. Should deficiencies develop, prompt corrective measures are taken at our expense.



7 Training of Personnel

After its initial startup, our Operations Engineer remains at your plant to thoroughly train your key production personnel.



America's Foremost Designers and Builders..

SUPERPHOSPHATE PLANTS • FERTILIZER MIXING PLANTS

RELATED PRODUCTION EQUIPMENT

**THE A. J. SACKETT & SONS CO.,
1727 S. HIGHLAND AVENUE, BALTIMORE 24, MD.**

*Superphosphate and mixed goods
producers are invited to get our
seasoned counsel on their expansion
and modernization programs. It is
available at no cost.*

Architects and Manufacturing Engineers to the Fertilizer Industry since 1897

USDA PRELIMINARY 1953-54 FERTILIZER OUTLOOK

	Estimated 1952-53 Supply	Possible 1953-54 Supply	Possible Increase
N	1,800,000	2,000,000	11
P.O.	2,410,000	2,700,000	12
K.O.	1,735,000	1,995,000	15

By J. M. Lowe
Fertilizer Staff
PMA-OMF, USDA

The available supply of major plant nutrients reached a new high during the year ended June 30, 1953. In the main this increased supply was absorbed through consumption channels. The carry-over of certain types of material was somewhat higher than a year earlier but is not of burdensome proportions.

The prices of fertilizers during the 1952-53 fiscal year averaged about two percent higher than prevailed in 1951-52. Little changes from present price levels are expected during the coming year.

Preliminary estimates based on current information as to completion of new facilities, and assuming import-export relationships at about current levels, indicate the aggregate supply of the three major plant nutrients available for the 1953-54 season probably will exceed the record

output of 1952-53 by around 13 percent.

Nitrogen (N): The supply of nitrogen (N) available for fertilizer purposes in 1953-54 is currently estimated to slightly exceed two million tons. This is a preliminary estimate based on current information as to when a number of new synthetic ammonia plants are scheduled to be completed, and assumes about the same import-export balance as in 1952-53. This represents an increase of approximately 11 percent above the reported 1952-53 supply of 1,800 thousand tons.

It is estimated that the supply of solid nitrogen materials (dry nitrogen) available for 1953-54 represents approximately 60 percent of the total supply and that solutions and liquid materials (wet nitrogen) 40 percent. For the previous year these percentages, based on trade deliveries, were approximately 62 and 38.

Phosphate (P O): Preliminary estimates indicate that the 1953-54

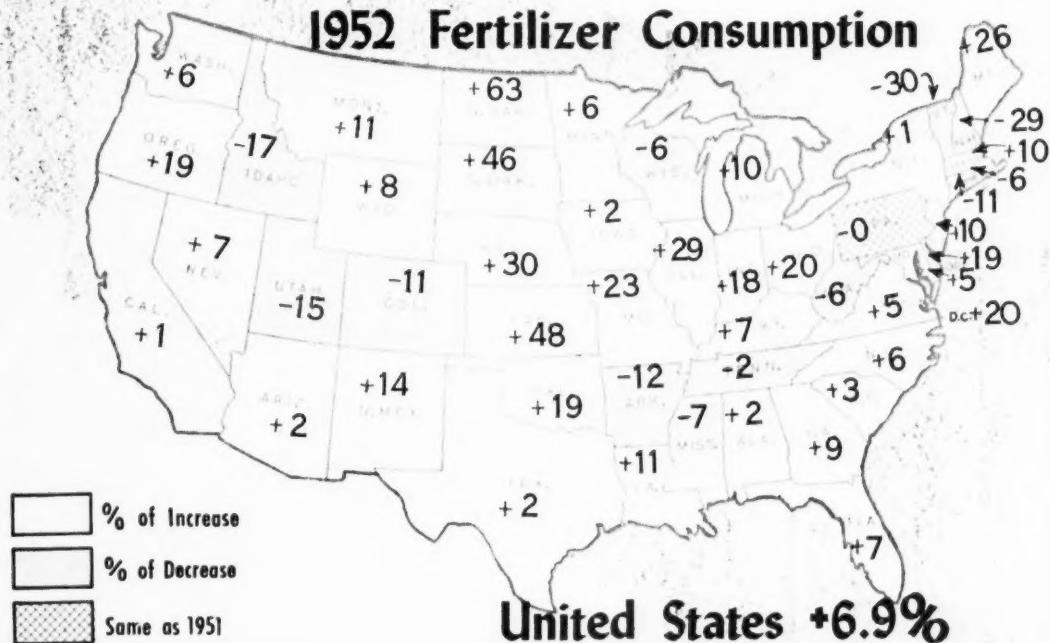
available supply of phosphatic material, P.O. basis, may exceed the 2,410,000 tons available in 1952-53 by as much as 12 percent. This estimate is based on current information with regard to the completion dates of new plants and assuming that sulfuric acid will continue in free supply.

The new plant capacity scheduled for completion in 1953 involves a sizeable tonnage of concentrated superphosphate, which should increase the supply of this material in relation to the total quantity of P.O. available in 1953-54.

Potash (K O): The goal established for the expansion of potash (K.O.) production facilities is ahead of schedule.

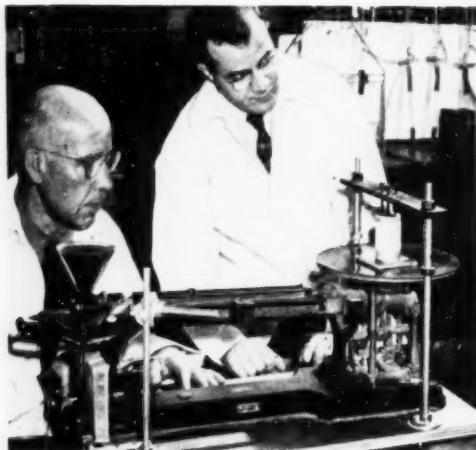
The 1953-54 supply of potash available for fertilizer purposes will reflect production from these new facilities as well as increases from older operating units. Taking into consideration the possible increase in domestic production, and assuming approximately the same import-export balance as in 1952-53, it is estimated that the 1953-54 supply will exceed the 1,735 thousand tons available in 1952-53 by as much as 15 percent.

1952 Fertilizer Consumption



Prepared by The National Fertilizer Association

Here's why SPENCER means SERVICE :



THE RESEARCH AND DEVELOPMENT Department at Spencer investigates technical problems confronted by fertilizer manufacturers. By increasing the total knowledge of the industry, such research benefits all. Each investigation is co-ordinated with field work by our Technical Service Section.

TECHNICAL SERVICE representatives like those you see here are "trouble-shooting" specialists. A wire or telephone call to Spencer brings immediate help on urgent problems. In addition, these technicians are visiting manufacturers constantly, helping them to produce better fertilizer at a lower cost. This service is yours without charge or obligation.



TRAFFIC CONTROL personnel at Spencer make *every* effort to place cars on *your* siding on the date requested, thus preventing disrupted production schedules, wasted manpower and other unnecessary expenses. In addition, this department has been instrumental in securing a lower freight rate on ammoniating solutions. Services like this help make the fertilizer business a *good* business.

Get More Nitrogen Per Dollar

SPENCER CHEMICAL COMPANY produces SPENSOL ammoniating solutions and SPEN-AMM anhydrous ammonia. Because of the low unit cost and ease of handling of these products, they give you more nitrogen per dollar.

FASTER CURING, TOO. The free neutralizing ammonia in SPENSOL and SPEN-AMM reacts vigorously to produce a quick curing mixed fertilizer of superior quality.



Spencer Chemical Company, Dwight Bldg., Kansas City 5, Mo. District Sales Offices: 412 Chandler Bldg., Atlanta, Ga.; 1st National Bank Bldg., Chicago, Ill.; Union Planters National Bank Bldg., Memphis, Tenn.

America's Growing Name in Chemicals

Commercial Fertilizer Consumption in the United States - 1951-52

This 13th annual survey shows consumption of fertilizers in the United States, including the Territories (Hawaii, Puerto Rico, Alaska), amounted to 22,432,418 tons during the year ended June 30, 1952. Of this total, mixed fertilizers, 15,086,349 tons, comprised 67.3 percent, materials containing one or more primary plant nutrients (N, P₂O₅, K₂O) 6,531,019 tons (29.2 percent), and secondary and minor element materials 785,050 tons (3.5 percent). Consumption of all fertilizers was 1,441,024 tons or 6.9 percent greater than the revised total (20,991,394 ton) for 1950-51 (1). Increases in consumption of these classes were for mixed fertilizers 1,107,967 tons (7.9 percent), materials containing primary nutrients 194,276 tons (3.1 percent), and secondary and minor element materials 138,781 tons (21.5 percent) greater than their respective consumption in 1950-51. Fertilizers consumed in 1951-52 contained a total

By
WALTER SCHOLL &
HILDA M. WALLACE
Division of Fertilizer and
Agricultural Lime
Bureau of Plant Industry, Soils, and
Agricultural Engineering
Agricultural Research Administration
U. S. Department of Agriculture
Beltsville, Maryland

sumed in 1951-52 was 24.86 percent as with 24.19 percent in 1950-51.

The Survey

Presented herein are eight tabulations and two figures designed to show the quantities, kinds, and grades of fertilizers and their primary plant nutrient content that were consumed in the United States and Territories during the year ended June 30, 1952. Included are certain comparisons with earlier years. These tabulations were prepared from reports, submitted to the Division of Fertilizer and Agricultural Lime, by manufacturers, showing the number of tons of fertilizer shipments for consumption in agriculture throughout the forty-eight States and the Territories. Supplementary information was furnished by the State fertilizer control officials and agronomists. All of this assistance is gratefully acknowledged. The word "ton" means the short ton.

State Consumption

Table 1, shows the total tonnages of mixtures and all materials (including the secondary and minor element materials) consumed in each State, Hawaii, Puerto Rico and Alaska. Consumption in other Territories was negligible. The changes in consumption of fertilizers and of primary nutrients are in percentage of 1950-51, as the base year. These data are presented together in this table to facilitate direct comparisons. The changes in the consumption of all fertilizers that contain primary by only nutrients are shown, in Fig. 1, by States. Increases were generally highest in the North Central States where 6,301,511 tons or 28.1 percent of all fertilizers were consumed. These States accounted for 821,354 tons (57.0 percent) of the national increase or 1,441,024 tons. In the Southern States, com-

PERCENTAGE CHANGES IN FERTILIZER CONSUMPTION
1950-51=100
1951-52 U.S. AVERAGE 6 PERCENT HIGHER

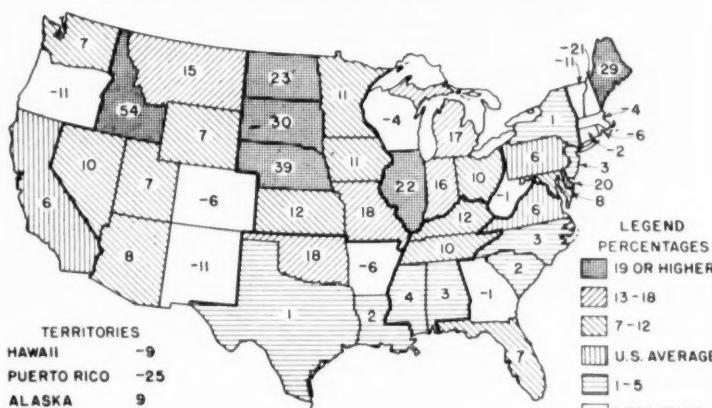


Table 1a - Consumption of Fertilizers, Year Ended June 30, 1952^a

State & Region	Mixtures			Materials			All Fertilizers 1951-52	Relative Consumption 1950-51 = 100	
	July 1 - Dec. 31, 1951	Jan. 1 - June 30, 1952	Total	July 1 - Dec. 31, 1951	Jan. 1 - June 30, 1952	Total		Fertilizers %	Total N, Avail. P ₂ O ₅ , & K ₂ O %
	Tons	Tons	Tons	Tons	Tons	Tons		Tons	Percent
Maine	22,370	179,068	201,438	4,566	6,359	11,073	212,531	129	131
New Hampshire	2,235	12,915	15,148	1,326	4,549	5,074	21,022	79	78
Vermont	11,757	26,892	38,649	6,697	8,803	17,500	56,149	89	95
Massachusetts	9,735	64,463	74,248	5,142	12,669	17,831	92,079	96	93
Rhode Island	1,480	15,865	14,345	600	1,794	2,394	16,739	94	99
Connecticut	5,601	52,947	58,548	6,336	22,350	28,686	87,234	98	100
New England	53,236	349,160	402,396	26,814	66,544	85,368	488,764	106	109
New York	97,983	358,629	486,612	40,239	108,066	148,308	634,917	101	103
New Jersey	47,926	193,086	241,011	7,127	16,844	23,971	284,982	103	104
Pennsylvania	166,811	401,005	567,816	35,534	63,605	97,039	664,855	106	110
Delaware	15,020	59,089	74,109	1,917	4,361	6,278	80,387	120	124
District of Columbia	367	1,384	1,731	204	606	810	2,541	117	120
Maryland	77,281	190,024	267,505	9,490	20,131	29,621	296,926	108	110
West Virginia	16,607	57,528	73,135	7,472	19,271	26,743	99,878	99	101
Middle Atlantic	420,994	1,290,726	1,711,719	99,983	232,784	332,767	2,044,486	105	107
Virginia	179,560	560,167	739,727	29,362	99,822	129,184	868,911	106	109
North Carolina	251,590	1,319,604	1,571,194	81,055	286,930	369,385	1,941,179	103	104
South Carolina	115,591	602,910	716,531	56,118	202,712	260,550	979,191	102	105
Georgia	182,942	690,266	1,055,207	64,470	185,434	247,704	1,801,111	99	103
Florida	364,332	589,175	973,566	46,359	68,127	110,456	1,380,261	107	106
South Atlantic	1,093,876	3,962,119	5,065,994	281,364	843,025	1,124,359	6,130,383	103	106
Ohio	316,931	667,510	983,441	24,010	42,096	66,106	1,043,547	110	113
Indiana	244,941	689,233	934,174	54,678	94,383	149,061	1,063,255	116	119
Illinois	186,113	407,094	592,207	418,238	423,203	842,141	1,454,348	122	141
Michigan	185,927	350,933	535,580	15,337	39,024	54,361	590,921	117	119
Wisconsin	73,523	277,235	350,358	16,102	26,803	42,906	393,763	96	101
East North Central	1,006,235	2,392,905	3,397,240	529,065	625,609	1,154,574	4,551,814	114	119
Minnesota	37,768	133,434	171,202	18,157	35,747	53,904	225,106	111	114
Iowa	66,744	211,102	277,945	58,964	90,118	149,062	426,928	111	117
Missouri	121,120	306,710	427,830	110,715	214,560	326,265	763,096	110	126
North Dakota	5,150	16,326	21,475	2,218	7,458	9,573	31,148	223	226
South Dakota	1,210	4,423	6,533	2,226	3,436	5,861	11,234	130	130
Nebraska	6,338	26,507	31,940	23,768	36,308	62,596	94,436	159	154
Kansas	37,126	47,460	84,586	62,891	60,213	123,104	207,690	112	112
West North Central	275,456	744,956	1,020,412	278,955	450,330	729,285	1,749,597	116	122
Kentucky	77,572	406,280	482,952	59,336	87,331	147,187	630,119	112	121
Tennessee	77,957	366,370	443,327	57,905	101,728	160,533	602,860	110	121
Alabama	132,902	737,373	870,212	204,213	268,121	472,334	1,342,609	103	106
Mississippi	25,684	346,249	370,233	197,528	257,157	454,696	825,628	104	109
East South Central	314,215	1,353,272	2,147,487	518,982	714,547	1,233,729	3,401,215	106	112
Arkansas	14,397	175,171	188,068	40,713	123,950	170,673	358,741	94	94
Louisiana	29,315	150,768	180,283	50,475	99,778	150,253	330,336	102	109
Oklahoma	12,514	52,504	65,018	51,120	56,517	107,537	172,655	118	121
Texas	64,967	226,514	285,481	162,478	159,408	321,883	615,364	101	107
West South Central	121,693	604,957	726,650	304,766	445,660	750,446	1,477,096	101	105
Montana	709	2,570	3,279	8,116	11,948	19,964	23,243	115	112
Idaho	192	11,425	14,617	14,395	47,220	61,615	73,232	154	154
Wyoming	49	622	671	1,459	4,626	6,085	6,756	107	108
Colorado	878	19,707	20,683	7,401	19,547	26,948	47,631	94	95
New Mexico	468	1,264	1,520	5,318	12,642	17,680	19,380	89	93
Arizona	5,957	18,386	24,545	42,569	49,275	92,184	116,807	108	109
Utah	333	2,246	2,579	11,617	16,457	28,064	30,633	107	107
Nevada	143	498	641	1,474	3,597	5,071	6,712	110	107
Mountain	6,725	56,608	65,233	92,669	164,792	257,461	322,694	111	111
Washington	6,231	21,491	26,722	25,212	39,714	64,926	91,648	107	114
Oregon	4,636	16,663	20,298	40,717	59,293	100,010	120,308	89	92
California	76,163	136,200	214,353	606,616	806,135	1,612,748	1,627,101	106	105
Pacific	88,019	173,354	281,373	672,544	905,140	1,577,684	1,839,057	104	104
Continental U. S.	3,381,448	11,427,056	14,808,504	2,805,062	4,436,651	7,243,693	22,052,197	107	111
Hawaii	29,990	25,646	56,635	28,334	31,912	60,146	115,681	91	92
Puerto Rico	121,965	100,228	222,193	23,562	16,222	41,784	263,977	76	82
Alaska	1	116	117	0	446	446	583	109	108
Territories	161,356	125,889	277,845	51,896	60,480	102,376	380,221	79	85
Total U. S., 1951-52	3,653,404	11,562,945	15,068,349	2,856,958	4,489,111	7,346,069	22,432,418	106	110
1950-51 ^b	3,584,456	10,593,926	15,978,382	2,940,994	4,072,018	7,013,012	20,991,394	100	100
1949-50	2,640,680	9,649,036	12,297,596	2,261,020	3,764,684	6,045,704	16,345,300	88	86

^{1/} Includes: Ground phosphate rock, basic slag, secondary and minor element materials, such as, borax, sulfur, manganese sulfate, etc. Used as separate materials, also fertilizer distributed by Government agencies. Does not include liming materials, but includes gypsum.^{2/} Excludes materials not guaranteed to contain the primary plant nutrients, N, P₂O₅, or K₂O. Their quantities are shown in Table 4.^{3/} Revised, additional information for Nevada shows consumption in 1950-51 should have been:

78	696	773	1,074	1,922	2,996	3,769	--	--
----	-----	-----	-------	-------	-------	-------	----	----

Table 2. - Consumption of Principal Lixed Fertilizers in the Continental United States,
By Grades, Years Ended June 30, 1952 and 1951

Grade	Consumption		Proportion of Total		Grade	Consumption		Proportion of Total	
	1952	1951	1952	1951		1952	1951	1952	1951
	Tons	Tons	Percent	Percent		Tons	Tons	Percent	Percent
C-8-24	4,610	5,710	.03	.02	S-2-10	19,612	29,611	.13	.22
C-8-27	35,000	49,926	.24	.37	S-2-20	41,445	28,778	.26	.21
C-10-10	4,575	4,652	.03	.05	C-2-6	22,169	23,179	.15	.17
C-10-20	61,740	26,014	.42	.19	6-4-6	6,361	9,567	.04	.07
C-10-30	22,942	18,507	.17	.14	6-4-8	10,674	15,710	.07	.10
O-10-45	3,023	0	.02	.00	6-4-10	3,630	1,013	.03	.01
O-12-12	191,120	146,349	.19	.16	6-6-6	2,900	671	.02	<.01
O-12-20	26,597	22,550	.16	.17	6-6-6	70,350	34,857	.46	.26
O-12-26	4,243	5,777	.05	.04	6-6-6	13,732	15,759	.13	.12
O-14-6	3,901	5,496	.03	.04	6-6-9	9,105	29,060	.06	.21
O-14-7	141,394	142,505	.16	.16	6-6-18	6,246	4,593	.04	.03
O-14-10	43,515	115,829	.29	.85	6-7-7	4,624	4,079	.03	.03
O-14-14	329,421	234,778	.22	.17	6-8-8	230,566	260,783	.16	.19
O-15-15	16,175	9,478	.11	.07	6-8-8	265,583	664,851	.17	.13
O-15-20	3,910	0	.02	.00	6-8-8	269,485	218,384	.12	.10
O-16-6	6,241	5,808	.04	.03	6-8-12	4,325	54,744	.30	.40
O-16-16	6,926	0	.05	.00	6-9-6	6,401	7,967	.04	.06
O-20-10	41,248	60,351	.06	.44	6-9-6	13,745	10,261	.09	.06
O-20-20	251,247	217,162	.16	.18	6-9-9	9,779	8,886	.07	.07
O-20-30	3,642	2,185	.03	.02	6-9-12	69,546	41,853	.47	.31
K-6-6	6,004	3,302	.04	.02	6-11-1	81,560	55,976	.42	.40
Z-1-15	7,310	214	.05	<.01	6-12-4	6,256	5,416	.05	.03
Z-1-12	317,686	586,604	.21	.41	6-12-4	66,659	41,343	.38	.30
Z-1-14	402,717	321,012	.27	.23	6-12-12	136,466	80,217	.92	.69
Z-1-18	13,401	20,764	.09	.23	6-6-12	3,248	3,786	.02	.03
Z-6-6	5,135	4,601	.03	.03	6-6-12	23,896	16,220	.16	.12
Z-6-8	13,465	20,644	.09	.15	6-6-12	10,830	12,937	.07	.09
Z-6-10	27,351	26,873	.11	.10	6-6-12	3,242	762	.02	.01
Z-6-12	600,456	806,177	.54	.62	6-5-0	5,101	4,642	.02	.03
Z-6-9	407,658	349,478	.27	.26	7-7-7	37,204	35,701	.25	.26
Z-6-10	4,586	22,721	.09	.24	8-6-6	16,194	17,352	.10	.13
Z-6-12	4,711	2,934	.03	.06	8-6-6	21,725	9	.16	<.01
Z-6-14	183,389	208,851	.14	.19	8-6-6	3,392	249	.02	<.01
Z-6-16	70,571	23,259	.04	.17	8-6-6	11,687	1,458	.08	.01
Z-8-10-10	5,660	3,281	.04	.02	8-6-2	2,979	2,663	.02	.02
Z-10-12	10,233	7,455	.07	.05	8-6-4	4,822	2,642	.03	.02
Z-12-12	662,644	728,914	.44	.54	8-6-6	6,152	968	.04	.01
Z-12-9	2,281,712	1,441,925	15,41	13,50	8-6-6	10,128	6,755	.07	.05
Z-16-9	107,907	119,013	.72	.87	8-6-6	21,523	21,371	.14	.16
Z-16-12	3,574	0	.03	.00	8-6-6	286,142	146,855	.193	.158
Z-4-6	5,298	169	.02	<.01	8-6-10	3,295	3,349	.03	.02
Z-4-8	2,362	3,278	.02	.02	8-10-12	11,516	13,086	.08	.10
Z-4-10	5,765	2,792	.02	.02	8-12-12	12,371	8,265	.08	.06
Z-4-5	7,716	5,716	.05	.03	8-12-16	28,626	20,534	.19	.15
Z-4-6	12,356	15,934	.06	.12	8-16-8	4,740	4,222	.03	.04
Z-4-8	71,642	85,714	.48	.65	8-17-16	6,075	38,573	.29	.28
Z-4-7	114,312	116,355	.81	.87	8-24-8	63,519	37,389	.43	.28
Z-4-8	16,459	14,024	.11	.10	8-6-10	35,111	26,599	.22	.20
Z-4-6	631,564	584,507	.59	.43	9-7-7	8,218	7,614	.06	.05
Z-4-8	263,273	264,406	.178	.134	9-7-9	4,850	412	.03	<.01
Z-5-13	39,521	5,227	.27	.04	10-10-10	38,183	30,994	.28	.22
Z-6-12	91,450	63,350	.62	.61	10-12-12	3,242	2,243	.02	.02
Z-6-5	81,780	83,010	.56	.61	10-10-20	2,597	3	.02	<.01
Z-11-12	622,084	618,461	.42	.43	10-4-10	4,636	2,388	.03	.02
Z-11-7	508,254	465,310	.34	.31	10-6-6	30,755	28,249	.21	.21
Z-11-8	5,177	7,990	.03	.06	10-8-6	7,481	2,423	.05	.02
Z-11-13	7,464	8,309	.05	.06	10-10-0	18,308	24,285	.13	.18
Z-12-4	247,553	364,131	1.67	2.57	10-10-6	38,721	42,591	.28	.31
Z-12-6	8,738	12,309	.06	.09	10-10-10	139,392	71,596	.94	.53
Z-12-12	215,722	243,398	1.46	1.78	10-12-10	5,451	2,993	.02	.02
Z-12-12	82,662	35,067	.56	.24	10-15-16	4,813	5,014	.05	.02
Z-12-15	3,589	2,709	.03	.02	10-15-6	10,900	12,381	.07	.05
Z-15-15	42,397	51,186	.29	.38	10-20-0	64,576	60,577	.57	.44
Z-15-8	62,340	46,328	.42	.34	10-20-10	12,758	11,209	.09	.09
Z-15-15	215,224	121,899	1.45	.89	10-30-10	11,366	9,171	.06	.07
Z-24-12	86,290	65,792	.58	.48	12-4-10	9,078	16,924	.06	.11
Z-5-6	3,359	5,014	.02	.02	12-6-12	6,941	5,668	.05	.03
Z-6-6	10,385	8,704	.07	.06	12-4-6	2,734	4,10	.02	<.01
Z-6-10	2,583	892	.02	.01	12-12-12	32,776	15,527	.22	.11
Z-6-12	7,490	2,320	.05	.02	12-24-12	6,355	6,164	.06	.04
Z-6-13	5,181	5,249	.03	.04	12-24-12	24,832	11,326	.17	.09
Z-7-5	18,977	20,166	.13	.15	14-6-14	21,561	18,400	.17	.14
Z-7-6	5,941	5,792	.03	.04	14-6-6	2,590	3,402	.02	.03
Z-7-10	7,380	6,152	.05	.05	15-6-6	11,129	11,706	.06	.09
Z-8-6	5,044	5,121	.02	<.01	15-15-6	7,124	0	.06	.00
Z-8-7	23,291	26,531	.16	.19	16-6-6	4,416	3,747	.03	.03
Z-8-8	5,342	146	.03	<.01	16-6-2	3,642	787	.02	.01
Z-8-10-5	908,355	897,373	6,13	6,58	17-7-0	27,497	31,760	.19	.23
Z-10-10	863,820	686,359	8,43	.49	134 mixtures				
Z-10-12	10,358	3,562	.07	.03	14,459,829	15,250,382	97,71	96,29	
Z-10-16	10,539	6,524	.07	.04	Other specified grades ^{1/}	250,361	323,842	1,69	2,37
Z-10-20	3,446	1,156	.02	.01	Grade not shown ^{2/}	88,314	86,714	0,80	0,94
Z-10-10	6,442	5,156	.06	.04					
Z-15-15	11,420	8,150	.08	.06					
Z-15-18	3,257	3,559	.02	.03					
Z-20-0	5,004	3,463	.03	.03					

^{1/} There were 984 in 1951-52 and 853 in 1950-51.

^{2/} There were, at least, 200 to 300 grades not shown by their guaranteed analysis.

³ Does not include 277,845 tons consumed in the Territories.

prising the States of the South Atlantic and South Central regions, consumption amounted to 11,058,695 tons or 49.3 percent of the total and accounted for 384,097 tons (26.6 percent) of the increase. The Western States, consuming 2,161,751 tons or 9.6 percent of all fertilizers, accounted for 218,882 tons (15.2 percent) and the Northeastern States, comprising the States of New England and the Middle Atlantic regions, consuming 2,530,240 tons or 11.3 percent accounted for 117,290 tons (8.1 percent) of the increase. Consumption in the Territories amounted to 380,221 tons or 1.7 percent of all fertilizers consumed and was 100,599 tons less than for 1950-51.

Consumption of mixed fertilizers increased in 38 States and decreased in 10. The use of materials increased in 25 States and decreased in 23. The greater use of mixed fertilizers accounted for most of the national increase in consumption of fertilizers. Consumption of most of the more important individual materials increased over that for 1950-51, but that of superphosphate decreased, resulting in only a slight net increase in the total consumption of all materials.

Mixtures

Table 2 lists the 164 grades consumed in the Continental U. S. in 1951-52, in amounts of 2,500 tons or more and their consumption in 1950-51. These grades accounted for 14,469,229 tons (95.91 percent) of the total consumption, 15,086,349 tons, of mixtures in 1951-52. Nine of them accounted for 50 percent. Other grades, numbering 984, totaling 250,961 tons, and approximately 200 to 300 special grades, not listed by their guaranteed analysis and totaling 88,314 tons, were also consumed. In addition, 277,845 tons, not included in Table 2, were consumed in the Territories. Grades consumed in the Territories are not included in Table 2, for the reason that those consumed in Hawaii were reported as fractional numbers of the minimum percentages of nutrients and the principal grades consumed in Puerto Rico were not of the kinds gen-

erally used in the Continental U. S. Although the number of grades listed in 1951-52 totaled 1,148 and in 1950-51, only 992, it does not necessarily follow that there were actually 156 more grades used in 1951-52. There was, apparently, no substantial increase or decrease in the actual number consumed in the two periods. A large part of the 156

was due to manufacturers listing more grades by their guarantees than were listed in 1950-51.

The 164 grades listed in Table 2 represent 104 different ratios of primary nutrients. Of this number, 12 represent 74.9 percent of the total tonnage of mixed fertilizers consumed in the Continental U. S. These are listed in Table 2a. The four lead-

ing grades consumed in the Continental U. S. were 3-12-12 (1-4-4), 5-10-5 (1-2-1), 5-10-10 (1-2-2), and 3-9-6 (1-3-2). These were the nutrient ratios most favored in this country.

The principal grades consumed in each Region during the current year are listed in Table 3, with their consumption in each of the respec-

Table 3. - Consumption of Mixed Fertilizers, By Grades, in Each State and Region, Year Ended June 30, 1962

State	Fifteen Principal Grades Consumed in Regions																	All Other Grades				
	Tons								Number		Tons		Total Tons									
New England																			Tons			
Boston	8-10-10		6-9-12		0-16-16		B-12-16		S-8-7		G-3-6		0-10-20		0-8-16		B-8-12		7-7-7		B-13-20	
New Hampshire	27,706		69,108		14,870		27,844		4,327		0		895		4,775		9,394		302		438	
Vermont	3,617		0		2,077		228		1,418		0		1,880		1,228		274		785		300	
Massachusetts	7,191		0		11,821		459		495		0		4,990		5,777		115		782		584	
Rhode Island	18,303		0		2,954		0		9,198		6,309		9,499		2,836		0		5,671		5,728	
Connecticut	8,707		0		976		0		882		0		393		374		1,118		529		1,018	
Total	49,563		69,105		33,165		28,626		22,706		21,566		20,963		14,308		11,768		11,255		10,753	
	8,776		8,776		8,776		8,776		8,776		8,776		8,776		8,776		8,776		8,776		8,776	
Middle Atlantic																			Tons			
New York	8-10-10		8-12-6		0-10-6		4-8-12		6-12-6		0-20-20		10-10-10		0-14-14		0-16-7		7-7-7		3-12-12	
New Jersey	12,681		13,908		16,870		18,797		3,582		42,507		17,368		26,259		212		10,533		12,874	
Pennsylvania	12,681		13,908		16,870		18,797		285		0		1,961		1,961		1,961		1,961		1,961	
Delaware	16,586		218,158		24,494		10,354		1,249		3,765		16,294		16,294		8,316		8,289		306	
District of Columbia	29,820		10,360		4,118		4,928		3,764		0		1,902		1,862		2,923		355		113	
Maryland	16		166		194		13		0		22		8		19		10		9		0	
West Virginia	10,785		99,049		23,721		23,603		11,548		0		1,926		2,535		6,519		5,418		2,177	
Total	486,247		584,916		67,509		69,145		54,902		46,549		46,944		45,711		38,588		26,467		24,807	
	26,254		26,254		25,294		25,294		22,932		22,932		22,932		22,932		22,932		22,932		22,932	
South Atlantic																			Tons			
Virginia	80,820		23,659		1		68,661		172,066		160,182		10		64,297		18,120		69,441		53,091	
North Carolina	46,493		360,200		10,190		155,413		64,488		44,006		69,681		68,728		61,720		4,632		4	
South Carolina	69,863		20,600		20,600		10,190		1,204		0		68,661		6,533		66,770		1,111		1,111	
Georgia	36,124		1,173		40,909		83,37		40,054		1,698		109,124		7,104		68,581		1,881		1,881	
Florida	20		771		60,246		5,683		2,108		0		10,755		11,913		1,940		5,011		11,910	
Total	637,726		520,576		53,151		46,674		37,176		24,949		22,607		17,672		15,704		12,722		12,722	
	12,722		12,722		12,722		12,722		12,722		12,722		12,722		12,722		12,722		12,722		12,722	
East North Central																			Tons			
Ohio	90,239		80,897		5,122		18,298		8,398		91,076		29,870		49,375		8,396		44,886		19,287	
Indiana	80,800		80,800		59,116		34,946		18,788		38,534		18,386		18,033		8,931		19,047		6,477	
Illinois	30,246		44,101		14,588		6,133		6,933		88,447		27,109		6,933		6,933		16,287		35,060	
Michigan	27,436		87,674		31,198		17,642		27,844		0		0		0		0		14,882		14,882	
Wisconsin	248		106		13		10		2		20		1,146		1,146		1,146		1,146		1,146	
Minnesota	364		13		9,743		359		18		0		688		121		1,146		0		121	
Iowa	1,903		1,903		984		29,897		11,761		1,180		6		2,509		78		376		10,508	
Total	182,920		223,967		220,591		180,948		156,706		111,763		99,713		99,713		36,503		34,697		16,624	
	21,765		21,765		21,765		21,765		21,765		21,765		21,765		21,765		21,765		21,765		21,765	
West North Central																			Tons			
Kansas	64,946		8,619		6,776		1,401		4,712		35,299		33,0									

The number of mixtures shown for each Plate and Region is exclusive of mixtures not specified by grade, although their tonnages are included in the totals.

3. The total consumption in Hawaii was 55,570 tons of mixed goods which were manufactured to consumer's specifications.

**PRIMARY PLANT NUTRIENTS CONSUMED IN REGIONS OF THE UNITED STATES
1950-51 AND 1951-52**

LEGEND

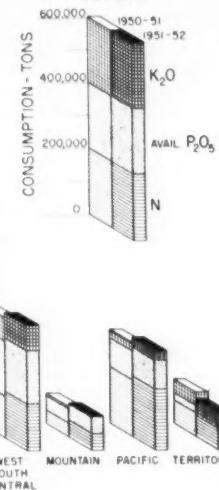


FIGURE 2

Table 4. - Principal Fertilizer Materials Consumed as Such, Year Ended June 30, 1952/

Tons

State & Region	Chemical Nitrogen Materials				Natural Organics		Phosphates		Potash Materials		Total Primary Nutrient Materials	Secondary and Minor Nutrient Materials	
	Amonium Nitrate	Amonium Sulfate	Calcium Ammonium Nitrate	Sodium Nitrate	Dried Beanes	Other ² /	Phosphate Rock	Superphosphates 16-20 Percent Grades	18-40 Percent Grades	Nitrides 50 & 60 Percent Grades	Other ² /		
Maine	1,314	142	106	286	93	686	172	10	8,071	0	120	1	11,002
New Hampshire	838	3	2	108	42	126	322	20	4,621	0	29	88	13
Vermont	318	7	6	65	69	72	46	180	16,241	0	40	366	26
Massachusetts	722	271	101	1,264	219	2,340	4,801	206	6,867	0	725	415	0
Rhode Island	79	188	19	120	65	211	706	10	1,801	1	103	89	5
Connecticut	562	170	78	889	112	1,071	14,479	119	6,900	7	1,250	1,212	32
New England	3,810	781	316	2,760	616	4,477	20,459	664	45,201	8	2,281	2,274	904
New York	8,237	808	850	6,789	1,146	4,047	6,436	986	116,104	89	1,519	600	94
New Jersey	2,668	201	1,629	3,265	265	3,345	2,066	371	7,640	1	1,304	1,304	20
Pennsylvania	2,979	2,374	52	2,354	529	3,695	4,759	5,186	71,877	42	1,596	1,524	331
Tennessee	1,353	61	72	440	201	2,611	1,591	180	1,200	0	111	3	107
District of Columbia	0	0	0	0	0	0	0	0	0	0	0	0	0
Maryland	1,426	127	619	6,130	1,149	621	267	6,018	14,769	1	441	105	663
West Virginia	218	347	0	6,130	216	221	101	99	23,237	566	67	13	0
Middle Atlantic	17,180	3,918	4,146	19,534	5,606	14,228	19,937	8,789	235,562	739	4,652	5,809	1,111
Virginia	5,685	692	1,018	36,521	17,789	571	281	376	36,766	4,551	5,051	1,558	15,186
North Carolina	2,654	972	10,178	18,499	7,769	447	1,700	1,129	33,445	1,607	10,428	10,563	15,454
South Carolina	1,651	3,406	2,091	91,292	58,427	240	606	1,554	45,249	65	15,289	17,109	8,492
Georgia	18,061	2,919	1,616	96,568	55,722	1,025	656	998	57,722	81	26,630	2,878	23,790
Florida	6,977	1,088	737	18,558	11,661	882	5,798	18,742	12,776	68	6,261	4,748	10,885
South Atlantic	70,216	9,064	16,492	399,523	202,623	5,188	9,045	22,598	169,292	9,152	59,657	46,854	47,066
Delaware	9,419	638	820	8,289	4,433	1,150	7,272	9,427	17,081	3,779	708	736	249
Indiana	45,826	12,101	1,218	1,496	18,386	823	1,682	44,244	18,293	5,280	332	5,238	390
Illinois	26,207	17,418	158	19,613	3,008	6,872	6,674	6,613	6,636	5,636	1,738	842,094	41,114
Michigan	10,028	8,987	346	1,142	1,282	894	8,452	5,181	20,046	38	1,319	869	0
Wisconsin	9,655	350	41	11	119	5,798	2,036	2,156	10,941	5,567	4	6,594	0
South North Central	99,134	43,804	2,789	5,744	45,804	6,182	27,549	72,261	105,061	12,676	11,356	2,585	1,153,772
Massachusetts	10,065	286	0	1	290	879	2,186	7,865	10,585	16,574	4,256	206	1
Connecticut	32,011	4,529	110	0	6,398	67	1,307	15,193	53,506	7,325	15,313	2,545	67
Missouri	27,465	6,616	26	548	17,454	1,409	2,088	227,972	16,810	4,756	8,998	11,514	994
North Dakota	355	18	0	2	1	0	1	16	44	6,076	6,076	0	0
South Dakota	1,017	181	0	0	125	83	95	0	2,162	2,162	0	6	5,651
Nebraska	25,261	7,934	160	0	7,595	166	879	2,424	10,941	5,567	4	6,594	0
Wyoming	16,014	11,770	0	20	2,006	78	386	21,656	16,499	22,700	250	7	125,194
West North Central	119,240	36,255	298	4,232	28,586	63,696	994	1,191	56,570	293,360	26,772	541,449	63,913
Kentucky	30,436	2,935	3,232	2,355	1,769	30	379	25,789	49,446	10,513	4,481	5,052	8,466
Tennessee	40,254	724	13	18,241	19,911	407	1,200	9,428	9,428	21,100	1,010	1,010	14,763
Alabama	10,435	8,917	338	9,761	18,304	449	180	2,719	58,106	6,621	108,036	14,755	2,828
Mississippi	115,421	27,094	4,346	82,358	39,738	16	0	5,489	61,360	4,569	120,261	51,154	6,524
East South Central	285,932	58,221	9,004	183,586	63,696	994	1,191	56,570	293,360	26,772	541,449	63,913	13,369
Arkansas	43,265	8,588	1,471	35,504	10,980	32	38	2,580	44,866	9,539	15,910	15,100	170,672
Louisiana	20,535	4,680	460	51,002	25,982	156	210	2,616	12,575	2,225	24,291	8,072	150,247
Oklahoma	6,236	2,548	0	367	98	198	363	4,186	40,661	4,186	5,511	5,414	0
Texas	24,536	28,526	1,586	2,944	20,406	2,559	1,133	30,913	127,465	18,086	57,456	1,536	315,951
West South Central	101,541	53,244	3,798	67,907	57,574	5,248	1,198	78,492	236,655	32,664	9,477	26,340	1,155
Montana	3,180	3,741	0	0	86	0	118	0	11,787	684	0	0	19,102
Iowa	6,245	12,175	204	360	0	0	580	18,871	13,131	5,449	8,072	51,273	4,242
Wyoming	2,241	360	0	26	0	0	0	1,534	3,777	0	0	6,040	76
Colorado	5,635	2,199	0	3	3,225	0	564	0	6,148	9,914	1,743	120	26,600
New Mexico	1,474	847	0	0	867	20	456	4,239	6,325	6,241	3	0	17,560
Arizona	11,355	17,256	801	1,718	25,305	2,499	1,998	0	6,143	5,402	17,178	13	84,867
Utah	3,720	12,180	0	0	18	47	120	0	6,849	4,334	1,821	252	27,624
Nevada	49	98	0	0	1	0	4	180	7,711	669	671	0	4,302
Mountain	29,785	69,647	841	1,721	27,821	2,589	1,650	334	40,294	53,400	32,694	455	554
Washington	10,785	10,324	120	380	848	1,245	5,271	1,048	10,728	4,614	6,157	1,545	22
Oregon	17,845	22,781	433	90	6,130	0	903	1,200	18,460	2,859	14,767	1,241	15,535
California	77,004	189,884	8,645	80,116	78,208	180,000	68,336	1,073	70,133	22,675	16,356	5,732	747,783
Pacific	105,614	192,769	6,398	1,245	133,107	181,243	62,712	4,021	69,517	22,848	22,961	4,266	5,578
Continental U. S.	799,088	410,855	42,181	683,881	686,688	188,722	14,000	1,158,346	2,221,715	224,061	700,115	156,727	71,781
Hawaii	0	56,061	0	163	6,057	4	80	1,674	1,454	786	4,359	7,739	1,703
Puerto Rico	0	60,082	99	16	1,978	0	0	0	123	16	69	50	41,764
Alaska	131	11	0	3	1	0	0	0	0	196	44	60	0
Territories	131	78,154	99	180	7,317	6	80	1,674	1,677	998	4,672	7,889	1,767
Total:	1,911-82	799,189	468,817	42,254	681,781	187,203	185,728	145,098	1,160,020	1,024,226	226,070	7,04,767	246,576
1950-51	1,850-61	636,376	461,801	44,222	685,987	468,811	185,450	135,420	1,159,864	1,153,877	259,726	6,677,701	189,588
1949-50	877,582	134,884	81,878	82,426	264,976	186,213	127,984	749,285	1,086,777	286,185	487,026	109,289	6,562,107

^{1/} Includes materials distributed by Government agencies. Excludes lime and materials used by manufacturers in the formulation of commercial mixtures.

^{2/} The principal commodities are shown in Table 8, by regions.

^{3/} Includes colloidal phosphate, the quantity of which is shown separately, by regions, in Table 8.

^{4/} Estimated.

^{5/} Revised; 1950-51 data for Nevada should read:

100	114	0	187	0	0	15	280	49	817	256	0	1	1,297	1,299
-----	-----	---	-----	---	---	----	-----	----	-----	-----	---	---	-------	-------

Some Like them Open... Others Like them Closed...



Just as with multiwall bags for fertilizer

Some fertilizer plants like open mouth multiwall bags—and those who do, like the versatility and dependability of the St. Regis open mouth packer.

Others like the strength of the pre-closed valve bags. And they consider that for many years, in hundreds of installations, St. Regis valve bag packers have meant high production with great efficiency.

We make both types of bags. We make both machines—St. Regis 127-AS open mouth packer and St. Regis valve bag packers—327-PB and 160-FB. Each machine is designed

and built by St. Regis to do an outstanding job—each will lower production costs.

ST. REGIS PACKAGING PAYS OFF

Our trained engineers know the fertilizer field. They know *your* problems—their full-time job is helping you choose and install the *right* packer and the right multiwall bag for your specific requirements. Call your nearest St. Regis sales engineer today—he will be happy to provide you with a cost and plan analysis of *your* production problem.

An illustration showing three bags of St. Regis Multiwall Paper Bags. Two bags are standing upright, and one is lying flat. All three bags have the "ST. REGIS" logo and "Multiwall PAPER BAGS" printed on them. The bags are set against a light background.

Multiwall Paper Bags to Suit Your Needs

St. Regis makes both valve and open mouth multiwall paper bags. Produced to the same exacting standards, they assure efficient, economical packaging as well as protection for your product.

Strategically located St. Regis bag plants offer quick service and dependable delivery no matter where you're located. Whether you pack in open mouth or valve bags—or require a specially designed bag—St. Regis will be happy to serve you.



SALES SUBSIDIARY OF ST. REGIS PAPER COMPANY

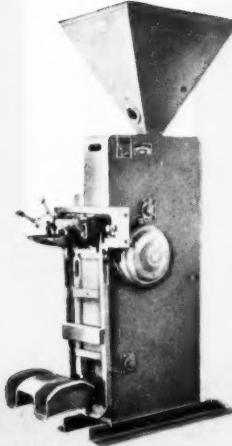
ST. REGIS
SALES CORPORATION
230 PARK AVENUE, NEW YORK 17, N.Y.

Allentown, Pa. • Atlanta • Baltimore • Birmingham
Boston • Buffalo • Chicago • Cleveland • Dallas
Denver • Detroit • Houston • Kansas City, Mo. • Los
Angeles • Louisville • Minneapolis • New Orleans
New York • Norfolk • Ocala, Fla. • St. Louis • Salt
Lake City • San Francisco • Seattle • Toledo

In Canada: St. Regis Paper Co. (Can.) Ltd.
Montreal • Hamilton • Vancouver

Protect Your Product in Multiwalls

ST. REGIS 327-PB VALVE BAG PACKER



This machine fills 8 to 12—80 or 100 lb. bags per minute. A 2-tube unit, efficient and dependable, it provides:

1. Sustained high production—continuous operation at maximum capacity
2. Reduction in labor—only one operator required
3. More accurate weights—mechanical weighing holds closer tolerances
4. Less breakage—valve bags are factory closed—stack well

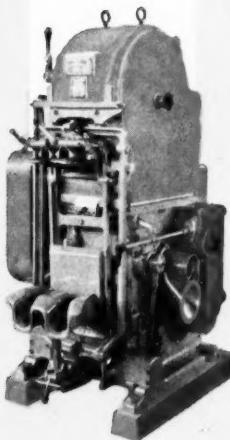
ST. REGIS 327-PB COMBINATION VALVE BAG PACKER

(With reversible feeder and spout for open mouth bags)



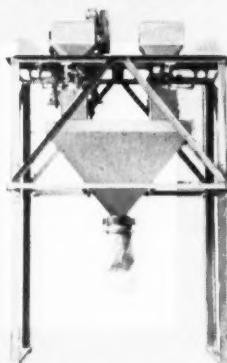
Recommended where large percentage of shipments are made in valve bags, but where some textile bags are also used. This machine has the same capacity as the 327-PB, but includes reversible intermediate belt feeder, which takes preweighed charge to spout for open-mouth bags.

ST. REGIS 160-FB VALVE BAG PACKER



This machine has been accepted for years as the workhorse of the industry. A 2-tube unit, the 160-FB simultaneously fills and weighs multiwall valve bags—80 to 100 lb. sizes—12 to 15 bags per minute with one man.

ST. REGIS OPEN MOUTH WEIGHING AND FILLING MACHINES



For plants that cannot use valve bag filling equipment due to large quantity of textile bags.

SINGLE SCALE—Operates on same scale used in 327-PB. Low initial cost, improved weights and pace setting operation make this equipment desirable. Capacity 8 to 12—80 or 100 lb. bags per minute with one man filling and one sewing.

DUPLEX SCALE—Designed so that scales can be operated alternately or simultaneously. This unit has the advantages of high tonnage output—16 to 20 bags per minute with one man filling and one sewing—pace setting operation and mechanical weighing. It can be used for fabric or paper and it incorporates the St. Regis 127-AS scale—a unit proved in the fertilizer industry.

Table 5. - Kinds of Fertilizers Consumed in Regions of the United States,
in Tons, During Year Ended June 30, 1952¹

Kinds	New England	Middle Atlantic	South Atlantic	West North Central	West North Central	East South Central	West South Central	Mountain	Pacific	Territories	Total
MILDED GRADES											
N-P-K	536,152	1,879,938	4,638,286	3,078,636	761,614	1,810,120	636,873	26,997	229,316	13,604,669	
N-P	288	165	1,035	835	184,787	16,396	39,116	30,766	1,565	275,185	
P-K	65,976	131,924	281,767	316,640	74,101	254,974	73,565	83	1,289	1,170	1,200,999
B-E	0	2	134,919	1,069	10	1,746	27	38	3	7,282	145,096
CHEMICAL NITROGEN MATERIALS											
Amonia - anhydrous	0	2/	2/	2/	2/	2/	2/	2/	2/	2/	168,273
Amonia - aque	0	0	185	83	110	0	1,234	19	10,427	0	20,026
Anhydrous nitrate	3,810	17,180	70,216	89,193	119,246	256,190	98,541	29,785	106,814	151	799,199
Anhydrous nitrate-limestone mixtures	286	100	1,000	28,012	15,274	21,992	2,574	1,297	1,297	1,297	257,617
Amonium sulfate	283	0	3,915	9,564	45,454	30,653	30,721	43,824	49,447	192,789	76,134
Calcium cyanamide	31C	4,146	15,496	2,799	296	9,084	3,792	841	6,386	40,017	42,554
Calcium nitrate	0	0	7,064	872	87	4,909	1,308	4,027	31,109	83	49,406
Sodium nitrate	2,760	19,654	398,423	5,744	571	183,566	67,967	1,721	1,246	180	681,761
Other chemical nitrogen materials ²	32G	2,028	10,659	14,664	18,221	36,761	46,890	23,575	83,352	7,234	77,631/
NATURAL ORGANICS											
Blood, dried	0	286	46	89	0	0	0	7	1,214	0	1,644
Cattle manure	2,761	61	2,171	0	0	0	7	0	956	0	5,986
Compost and mank	0	0	416	0	0	0	0	0	0	0	416
Cottonseed meal	10,823	31	1,137	0	0	2	0	0	22	0	12,015
Diamond meal	0	0	0	0	0	0	0	0	842	0	842
Hemp straw and meal	712	18	17	0	0	0	0	0	435	0	1,176
Horn and horn meal	200	0	0	0	0	0	0	0	0	0	200
Maurice, dried	4,477	14,228	3,186	6,182	2,622	8,994	3,245	2,566	161,243	4	198,726
Seaweed sludge, activated	4,343	9,235	3,623	27,295	6,850	1,289	1,731	1,489	14,674	80	70,119
Seaweed sludge, other	0	0	0	0	0	0	0	0	24	37,567	0
Tanage, animal	0	760	0	0	0	0	0	0	0	0	1,169
Tanage, garbage	0	1	0	73	0	0	0	0	0	1,100	0
Tanage, process	1,103	3,227	1,588	92	0	0	0	0	0	0	5,977
Others	517	330	76	0	0	0	0	0	5,416	0	6,787
PHOSPHORUS MATERIALS											
Anhydrous phosphate, 11-48	0	0	0	205	2,866	3	195	1,205	6,819	3,391	14,705
Anhydrous phosphate, 16-20	0	0	4	2,728	35,197	70	64,436	24,106	72,581	1,081	190,118
Anhydrous phosphate, 13-39	0	0	0	46	14,180	0	4,053	2,751	0	0	21,034
Anomalous superphosphate	0	0	491	0	0	2,557	0	0	4,210	0	7,285
Baile lime phosphate	0	148	196	0	0	1,374	0	0	0	0	1,714
Baile slag	0	70	62,736	19	0	320,514	18,655	0	0	0	391,774
Bonemeal, raw	866	2,176	1,085	336	92	104	230	0	2,317	0	6,686
Bonemeal, steamed	1,394	2,041	261	769	6	268	0	0	62	0	4,756
Calcium metaphosphate	0	0	5,086	4,644	6,107	8,451	297	0	189	0	24,774
Potassium alum phosphate	0	0	1,759	590	3,650	10,950	0	0	0	0	14,969
Phosphate rock, 20-63% P ₂ O ₅	0	0	0	0	0	41	4,684	13,813	0	0	18,508
Colloidial phosphate	478	6,274	21,212	711,380	271,649	24,049	77,401	714	4,021	1,874	1,204,467
Precipitated bone	80	2,686	1,386	10,692	12,521	12,521	220	0	0	0	41,683
Superphosphate, 10%	1,942	31,756	76,466	27,291	12,270	52,010	880	4,352	76,587	0	282,444
" 19%	169	1	3,770	52	4,001	1,311	16,051	32,895	23,928	0	82,288
" 30%	0	0	0	0	0	0	3,655	184	0	787	5,425
" 38%	0	0	0	36	17	0	5	0	0	0	58
" 42%	0	0	0	0	0	21,720	0	0	0	0	67,187
" 43%	0	0	0	0	0	0	0	40,173	5,294	0	46
" 46%	1	868	1	5,800	14,600	2,852	22,460	6,226	16,592	214	72,344
" 48%	0	101	0	3,888	21,187	5,065	14,506	8,201	689	0	33,846
" 47%	7	30	146	1,348	4,736	7,297	752	1,004	321	0	16,340
" 48%	0	2,399	646	646	7,293	12,969	1,328	40	0	0	24,877
" 49%	0	0	1,807	57	62	729	1,673	400	0	0	8,528
" 50%	0	0	0	337	60	177	0	0	0	0	574
POTASSIUM MATERIALS											
Cement flux dust	0	587	23,639	0	0	800	0	0	0	0	24,726
Cotton hull ash	695	1	0	3	0	0	0	0	0	0	699
Barium sulfate, 12-50% K ₂ O	0	115	3,500	1,320	2	165	450	0	0	0	5,531
Potassium carbonate	0	0	149	0	0	0	0	0	0	0	149
" chloride: KOI K ₂ O	86	686	38,448	29,458	76	35,861	17,613	13	1,800	0	122,446
" KO4 K ₂ O	2,184	3,144	12,569	45,065	13,645	27,962	10,928	440	2,441	7,849	124,031
" magnesium sulfate	79	126	0	2,065	342	1,036	611	0	0	0	8,873
" nitrate	0	0	8,919	0	0	0	0	0	0	0	8,919
" phosphate ash	0	0	1,863	0	0	725	0	0	0	0	2,068
" sodium nitrate	18	29	215	0	227	1,846	0	840	0	0	2,571
" sulfate	204	122	8,338	480	0	9,348	81	14	3,379	1,008	20,435
Tobacco stems	0	121	1,808	2	0	0	0	0	0	0	1,931
Wood ashes	0	10	3,519	0	0	0	1	0	0	0	3,529
Total primary nutrient fertilizers	486,580	2,042,410	5,136,568	4,051,012	1,749,155	3,400,516	1,459,187	306,971	1,187,772	380,117	11,547,368
SECONDARY & MINOR ELEMENT MATERIALS											
Aluminum sulfates	4	58	1	6	0	0	0	0	0	0	69
Boron	64	174	227	331	0	250	7	18	302	0	1,363
Calcium sulfate	1,016	1,877	63,113	40	1,502	440	0	15,046	653,966	0	756,700
Copper sulfate	11	85	6,116	107	0	0	0	0	20	0	5,338
Ferrous sulfate	0	0	0	0	0	0	0	16	0	0	14
Hanganese carbonate	0	0	0	0	0	0	0	0	0	0	0
Hanganese sulfate	0	21	0	23	0	0	0	0	1,070	0	1,070
Sulfur: 25-99%	2	86	8,187	266	24	0	0	0	326	0	8,845
Sulfuric acid: 40-93%	2	66	4,256	11	0	0	1,665	638	5,908	0	11,339
Zinc sulfate	0	0	0	0	0	0	0	0	6,909	0	6,909
Minerals not classified	0	27	926	6	16	0	6,457	7	3,153	0	10,591
Total Sec. & Minor Ele. Mtls.	1,174	2,076	73,719	802	1,582	700	7,929	16,723	601,286	104	785,050
TOTAL ALL FERTILIZERS	485,704	2,046,686	6,180,383	4,651,514	1,749,697	3,401,216	1,477,098	322,694	1,639,367	380,221	22,432,416

¹/ Includes distribution by Government agencies. Does not include materials for manufacture of commercial fertilizers.

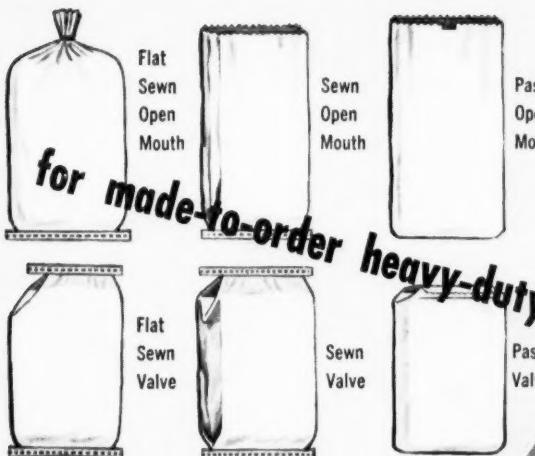
²/ Includes with "Other Chemical Nitrogen Materials." Regional data cannot be published without disclosing operations of individual suppliers.

³/ Anhydrous ammonia, ammonium sulfate-nitrate, nitrogen solutions, urea, and unsegregated chemical nitrogen materials.

⁴/ Does not include above total for anhydrous ammonia.

⁵/ Miscellaneous seed meals: Linseed (182), Peanut (31), Soybean (352), Tung (15), and unsegregated organics (5768).

⁶/ Includes materials distributed by other than manufacturers of fertilizers.



**Dependable as a Source
Dependable as a Service**
for multiwalls of every
type—2 to 6 ply,
1 to 4 color printing

for made-to-order heavy-duty multiwall sacks

there is no substitute for kraft!

KRAFT means strength in paper—
and economy in shipping sacks.

KRAFT also means KRAFT BAG CORPORATION
—now in its 3rd generation of bag
making...and the dominant factor
in the manufacture of KRAFT-lok®
a new valve closure considered the
greatest contribution to the industry
since the L C Sleeve.

KRAFT-lok users report definite dollar savings
from production and packaging efficiency
that has amazed everybody in the business.

Other shipping sack manufacturers may soon
be offering bags with the KRAFT-lok principle...

But for the assurance of true KRAFT-lok
construction and performance, get the
story from us—or ask us to give you a
demonstration on your own packers.



KRAFT BAG CORPORATION

Gilman Paper Company Subsidiary

630 Fifth Avenue, New York 20, N. Y. • Daily News Building, Chicago 6, Ill.

Completely Integrated plants at Gilman, Vermont, and St. Marys, Georgia

*TRADE MARK

Table 6. - Consumption of Primary Plant Nutrients in Fertilizers, Year Ended June 30, 1952¹

State & Region	In Mixtures				Nitrogen	In All Fertilizers			N, Avail. P ₂ O ₅ , & K ₂ O		
	P ₂ O ₅		K ₂ O	Avail. P ₂ O ₅ , & K ₂ O		P ₂ O ₅		Available	Total		
	Nitrogen	Available		Total		Available	Total				
Maine	12,206	21,681	22,566	25,917	55,803	12,804	23,342	24,263	26,954	62,100	
New Hampshire	661	1,429	1,734	2,109	4,299	793	2,586	2,735	2,155	5,534	
Vermont	1,035	5,188	5,376	5,803	12,026	1,186	8,579	9,030	6,036	15,300	
Massachusetts	3,561	7,077	7,406	7,744	16,492	4,649	8,745	9,216	8,059	21,453	
Rhode Island	716	1,443	1,528	1,462	3,611	876	1,647	1,743	1,506	4,029	
Connecticut	3,138	5,084	5,781	5,584	13,756	4,575	7,239	8,090	6,326	16,740	
New England	21,316	42,082	44,391	48,579	111,977	24,383	52,138	55,067	50,365	127,686	
New York	25,184	55,085	57,543	41,607	121,576	30,360	79,289	82,960	42,128	151,777	
New Jersey	11,834	25,908	27,094	23,224	60,966	14,123	27,611	29,035	24,115	65,350	
Pennsylvania	22,614	69,562	72,256	51,699	143,475	25,299	85,046	89,222	52,418	163,213	
Delaware	3,086	8,160	8,499	7,505	16,741	3,771	8,561	8,964	7,612	19,944	
District of Columbia	69	179	162	114	382	125	243	249	124	492	
Maryland	10,117	30,771	32,715	23,014	63,902	12,112	34,002	37,039	23,136	69,282	
West Virginia	2,014	9,697	10,416	6,901	18,512	2,512	14,827	16,801	6,713	24,252	
Middle Atlantic	74,937	199,252	208,705	154,065	420,284	88,302	249,629	263,270	156,549	494,780	
Virginia	21,687	83,336	88,823	69,380	174,402	33,887	93,422	99,212	71,308	198,617	
North Carolina	57,376	154,649	160,378	125,642	337,659	109,161	165,434	175,723	133,185	405,780	
South Carolina	26,767	71,346	76,525	56,921	155,024	61,157	81,422	87,465	68,924	211,503	
Georgia	42,556	93,206	101,177	81,064	215,526	74,810	102,856	111,627	86,793	266,159	
Florida	46,023	69,989	84,862	72,421	190,453	57,235	74,033	94,500	77,701	208,967	
South Atlantic	196,401	472,625	517,865	405,428	1,074,354	335,948	515,167	568,517	439,911	1,231,026	
Ohio	31,459	121,544	130,348	113,533	266,542	39,131	127,359	139,164	114,098	280,598	
Indiana	30,455	116,931	125,143	122,920	270,306	53,046	123,274	144,264	125,906	302,226	
Illinois	22,380	71,896	77,062	80,582	175,138	43,871	104,526	297,089	118,134	266,331	
Licichigan	16,793	71,638	76,310	64,319	152,750	22,522	76,919	82,849	64,708	164,149	
Wisconsin	9,964	60,356	53,470	55,311	115,601	13,535	54,331	62,688	56,808	124,674	
East North Central	111,021	432,346	462,333	436,971	980,337	171,905	486,419	726,084	479,654	1,137,978	
Minnesota	6,539	33,795	35,346	23,958	64,292	10,532	45,453	49,405	24,059	80,084	
Iowa	12,916	44,833	47,004	22,564	80,313	21,406	64,185	74,081	24,111	117,102	
Missouri	20,951	63,784	68,911	42,066	126,301	41,394	79,271	150,259	48,760	169,919	
North Dakota	1,080	5,563	5,686	1,560	6,203	1,358	9,515	9,790	1,560	12,431	
South Dakota	372	1,096	1,232	146	1,614	906	2,073	2,352	150	3,125	
Nebraska	3,365	6,059	7,086	449	10,683	16,816	14,124	15,442	4,86	31,488	
Panhandle	6,800	17,029	18,014	2,720	26,415	21,656	38,650	46,020	2,946	63,232	
West North Central	51,823	172,939	183,279	93,855	318,296	422,036	253,271	349,949	102,084	477,391	
Kentucky	17,092	52,654	57,364	42,125	112,271	29,800	72,406	84,362	49,352	151,538	
Tennessee	16,125	49,102	53,074	39,605	105,833	40,345	64,553	69,882	47,973	152,071	
Alabama	36,005	87,236	94,104	66,252	185,453	78,753	120,521	131,703	75,084	274,336	
Mississippi	20,574	35,625	38,373	29,402	81,661	101,361	60,656	67,191	41,838	203,555	
East South Central	90,596	224,617	242,215	173,845	489,080	260,259	315,136	353,136	214,207	722,602	
Arkansas	9,367	19,412	20,804	21,268	50,067	38,578	33,214	35,536	29,698	101,538	
Louisiana	10,278	20,094	21,432	14,682	46,054	42,842	28,670	31,720	19,058	90,570	
Oklahoma	3,431	7,926	8,406	3,767	15,163	7,712	20,860	33,818	5,529	34,329	
Texas	14,272	35,666	37,688	19,449	69,407	50,785	82,974	94,542	20,439	154,202	
West South Central	37,348	83,157	88,330	59,186	179,691	139,921	165,716	196,014	74,952	380,591	
Montana	303	651	722	46	1,000	2,262	5,967	6,428	51	8,260	
Idaho	1,305	1,467	1,716	165	3,037	6,937	12,517	13,204	200	19,554	
Wyoming	63	120	129	19	202	226	2,162	2,744	19	2,409	
Colorado	1,695	4,052	4,176	1,156	7,262	6,354	10,359	10,625	1,237	17,950	
New Mexico	139	256	265	45	442	2,056	4,951	5,063	49	7,085	
Arizona	2,754	3,437	3,618	442	6,633	25,030	11,604	11,915	572	37,206	
Utah	229	480	475	80	756	4,250	3,769	3,951	235	8,254	
Nevada	46	77	82	27	152	194	693	656	27	814	
Mountain	6,836	10,612	11,181	1,979	19,427	47,340	51,922	54,085	4,390	101,652	
Washington	1,823	3,270	3,610	2,726	7,819	15,815	9,215	10,118	3,764	25,754	
Oregon	1,653	2,920	3,126	1,829	6,401	17,240	11,455	12,173	2,648	31,193	
California	21,852	20,129	21,586	11,588	53,569	152,742	67,030	70,174	18,274	238,046	
Pacific	26,326	26,319	28,322	16,143	67,790	185,807	87,540	92,665	24,686	298,033	
Continental U. S.	615,606	1,663,848	1,787,321	1,389,729	3,669,183	1,366,401	2,179,340	2,655,752	1,545,398	5,061,739	
Hawaii	5,715	4,744	5,120	9,096	19,555	16,930	7,470	8,074	14,405	36,505	
Puerto Rico	26,892	12,094	14,063	21,558	60,544	41,364	12,144	14,113	21,616	75,144	
Aleutia	10	19	19	12	41	65	122	124	48	235	
Territories	32,617	16,857	19,202	30,666	80,140	58,379	19,436	22,311	36,069	113,884	
¹ Includes government distribution.											
² Includes, as available P ₂ O ₅ , 2 percent of the colloidal phosphate and 3 percent of the phosphate rock marketed for direct application.											
³ Includes, as total P ₂ O ₅ , 22 percent of the colloidal phosphate and 32 percent of the phosphate rock marketed for direct application.											
⁴ Revised.											

Central region such mixtures, though consumed in a large amount were only 18 percent of the total as compared with 74 percent for N-P-K mixtures. The relative proportions of the classes consumed in the Continental United States has not changed greatly over many years. In 1941 (2), they were, N-P-K 92 percent, P-K 6 percent, N-K 1 percent, and N-P less than 1 percent. In 1951-52, available P.O. 11.14, and K.O. 9.42

they were 89, 8, 1, and 2 percent respectively.

The weighted average primary nutrient content of all mixed fertilizers consumed in each State is shown in Table 7. The national average for all mixtures increased from 24.19 percent in 1950-51 to 24.86 percent in 1951-52. This average, in 1951-52, comprised, nitrogen 4.30, available P.O. 11.14, and K.O. 9.42

Table 7a - Weighted Average Content of Primary Plant Nutrients in Fertilizers, in Percent, Year Ended June 30, 1952/

State & Region	Mixtures ²				Materials ³				Total			
	N	Available P ₂ O ₅	K ₂ O	Total Nutrients	Single Nutrients ⁴		Multiple Nutrients %		Total Nutrients in Fertilizers and Materials	Total Nutrients in Fertilizers	Materials	
					N	Available P ₂ O ₅	K ₂ O	%				
Maine	6.06	10.76	12.86	29.58	29.28	19.93	58.96	10.75	20.38	29.23		
New Hampshire	5.70	10.75	11.92	28.37	28.49	20.72	51.18	9.26	21.32	26.42		
Vermont	2.68	13.42	15.02	31.12	30.19	20.59	58.74	12.84	21.61	26.16		
Massachusetts	4.93	9.55	10.45	24.89	21.34	19.52	50.40	10.01	16.21	23.35		
Rhode Island	4.39	10.06	10.12	26.17	16.70	19.87	51.74	11.41	17.64	24.09		
Connecticut	5.36	8.65	9.49	23.50	20.62	20.32	52.27	11.36	17.95	21.70		
New England	5.30	10.46	12.07	27.55	26.37	24.02	54.06	10.28	19.11	26.55		
New York	5.13	11.32	8.55	25.05	24.31	20.20	57.95	10.13	20.24	25.42		
New Jersey	4.91	10.71	9.64	25.26	25.18	18.35	50.90	10.59	20.49	24.86		
Pennsylvania	3.98	12.25	9.10	25.26	23.53	20.04	54.12	10.82	20.13	24.58		
Delaware	4.16	11.00	10.13	25.29	25.37	16.74	54.23	9.36	14.49	24.34		
District of Columbia	6.14	10.34	6.59	22.07	16.45	20.75	62.60	12.34	15.26	19.36		
Maryland	3.78	11.61	6.61	23.90	22.73	16.63	54.82	14.67	18.24	23.34		
West Virginia	5.76	15.26	9.44	26.45	20.65	21.35	53.33	12.26	21.09	24.28		
Middle Atlantic	4.38	11.64	9.00	25.20	25.69	19.92	54.63	10.53	20.12	24.23		
Virginia	2.93	11.27	9.38	25.58	19.77	25.57	11.51	26.36	20.11	25.03		
North Carolina	3.65	9.34	8.00	21.49	19.16	18.72	51.53	11.10	19.90	21.21		
South Carolina	3.72	9.43	7.92	21.57	19.65	17.14	49.92	34.32	21.87	21.66		
Georgia	4.04	8.88	7.70	20.58	20.55	18.84	49.38	19.76	21.10	20.85		
Florida	4.95	7.19	7.44	19.58	22.15	10.04	54.16	9.39	19.31	19.84		
South Atlantic	5.68	9.35	8.02	21.25	19.80	17.04	57.35	22.44	20.62	21.14		
Ohio	5.20	12.36	11.64	27.10	27.97	17.91	50.93	10.97	21.24	26.74		
Indiana	3.26	12.52	13.16	26.94	22.94	9.28	52.59	9.69	21.42	27.90		
Illinois	3.77	12.14	13.66	27.07	31.74	44.13	57.11	12.26	16.85	16.57		
Michigan	5.15	13.35	11.99	26.47	26.83	19.80	58.18	9.81	21.13	27.80		
Wisconsin	2.84	14.36	11.76	32.46	32.47	18.10	51.45	9.33	21.28	31.68		
East North Central	5.27	12.73	12.86	26.06	30.01	6.18	56.49	11.52	13.60	26.00		
Minnesota	3.82	19.76	15.99	37.85	32.16	29.51	56.34	24.73	30.16	35.82		
Iowa	4.65	16.14	6.12	29.31	31.50	17.86	57.67	5.67	24.66	27.45		
Missouri	4.90	14.91	9.83	29.64	36.49	6.63	56.86	20.99	18.26	22.56		
North Dakota	6.03	25.90	7.26	38.19	32.74	44.33	--	42.65	43.71	59.31		
South Dakota	6.60	19.46	2.59	28.68	31.84	25.59	48.50	12.07	26.76	27.70		
Nebraska	10.57	21.48	1.41	55.46	32.66	35.00	60.50	5.16	15.30	35.26		
Idaho	7.80	20.13	5.30	51.83	30.65	24.45	59.06	43.56	29.90	30.44		
West North Central	5.08	16.95	9.17	31.20	33.62	14.13	57.09	37.26	21.86	27.31		
Kentucky	3.64	10.90	6.80	25.24	31.39	21.26	50.35	10.95	26.89	24.05		
Tennessee	3.82	11.08	8.93	25.85	30.81	22.92	50.09	17.55	29.65	25.36		
Alabama	4.14	10.02	7.61	21.77	21.25	12.42	56.39	20.03	17.98	20.44		
Mississippi	5.55	2.60	6.86	26.01	31.42	14.36	51.41	29.05	26.87	24.69		
East South Central	4.18	10.36	6.02	22.86	29.06	16.40	53.38	21.06	25.61	25.02		
Arkansas	4.98	10.32	11.25	26.62	30.14	23.61	51.51	37.71	30.13	28.43		
Louisiana	5.71	11.16	8.16	25.04	35.02	19.74	54.42	24.10	30.29	27.42		
Oklahoma	6.28	12.28	5.79	25.32	30.27	16.22	56.66	36.16	17.81	19.08		
Texas	4.86	12.18	6.63	23.76	36.17	19.75	59.09	35.76	27.13	26.76		
West South Central	5.14	11.44	8.16	24.75	33.72	18.78	55.26	35.47	27.06	26.51		
Montana	9.24	19.85	1.41	30.80	27.07	43.35	60.60	14.34	37.33	36.38		
Idaho	11.23	13.49	1.41	26.14	24.66	26.76	60.16	39.21	29.01	26.12		
Wyoming	9.59	17.66	2.63	30.10	27.68	37.65	--	--	36.78	36.06		
Colorado	9.69	19.69	5.61	34.99	46.47	37.97	61.67	26.42	40.41	38.64		
New Mexico	9.11	16.57	2.96	29.05	34.48	39.42	60.50	37.18	37.63	37.21		
Arizona	11.31	14.12	1.85	27.25	36.68	30.16	60.80	34.87	36.08	34.07		
Utah	8.88	17.45	3.10	29.42	25.74	30.67	59.55	35.76	27.13	27.53		
Nevada	7.49	12.01	4.21	23.71	24.88	26.03	--	35.28	26.76	27.00		
Mountain	10.48	16.27	3.03	29.78	32.81	24.76	60.28	35.38	34.01	35.11		
Washington	6.82	12.74	10.20	29.76	41.11	25.35	58.28	24.61	33.66	32.48		
Oregon	6.14	14.39	9.01	31.54	26.06	27.82	57.89	36.88	26.40	24.16		
California	10.19	9.39	5.61	24.99	35.12	28.01	52.00	15.10	24.67	24.74		
Pacific	9.69	10.07	6.18	28.94	32.87	26.74	54.46	15.05	25.69	24.74		
Continental U. S.	4.16	11.24	9.38	24.78	27.39	14.71	49.76	20.72	22.02	23.95		
Hawaii	10.29	8.54	16.38	35.21	25.25	14.90	56.25	55.90	31.66	35.32		
Puerto Rico	12.10	6.44	9.70	27.24	34.93	25.05	58.24	36.00	34.94	25.67		
Aleut.	8.55	16.24	10.26	35.04	32.25	47.74	60.56	36.55	43.60	41.74		
Territories	11.74	6.07	11.04	26.85	30.04	16.38	58.26	65.38	32.99	29.56		

Table 2a - Principal Ratios of Primary Nutrients of Mixed Fertilizers Consumed in the Continental U. S. Year Ended June 30, 1952.

Ratio	Proportion of Quantity of All Mixed Fertilizers Tons	Percent
0-1-1	784,797	5.30
1- 1-1	572,168	3.86
1- 2-1	1,025,841	6.93
1- 2-2	1,709,354	11.54
1- 3-2	1,024,571	6.92
1- 3-3	501,610	3.39
1- 4-2	756,126	5.10
1- 4-4	2,541,223	17.16
1- 6-3	512,083	3.46
2- 4-3	534,118	3.61
2- 5-3	622,084	4.20
4-10-7	508,254	3.43
Total	11,092,229	74.90

Includes all grades having these ratios.

percent. The values for these nutrients respectively were 0.12, 0.11, and 0.44 higher than in 1950-51. Although the national average for each nutrient increased over that for 1950-51, changes by States and Territories showed variations. The average for nitrogen increased in 40 of these areas, decreased in 9, and in 3 there was no change. The available P.O. increased in 18 and decreased in 34, while K.O. increased in 44 and decreased in 8. The national average reflected the general trend in the change in composition of mixed fertilizers during the past years. In 1943-44 (3), the average nutrient content of all mixed fertilizers was 20.84 percent, comprising 3.71 for nitrogen, 10.38 for available P.O., and 6.75 percent for K.O. In this survey the values for these nutrient contents were, nitrogen 4.30, available P.O. 11.14, and K.O. 9.42, a total of 24.86 percent. These respective nutrients were 15.9, 7.3, 39.6, and the total 19.3 percent greater than in 1943-44.

Materials

Table 4, shows the principal materials consumed in the agriculture of each State while in Table 5, the various kinds of fertilizers so consumed are shown for each region. Quantities of materials used in the manufacture of mixtures are not included.

A slight change was made in these

^{1/} Excludes materials not guaranteed to contain N, P₂O₅, or K₂O.

^{2/} Guaranteed to contain two or more of the primary plant nutrients, N, P₂O₅, or K₂O.

^{3/} Guaranteed to contain one of the primary plant nutrients. Includes ammonium nitrate, superphosphate, potassium chloride, etc.

^{4/} Guaranteed to contain two or more of the primary plant nutrients. Includes potassium nitrate, ammonium superphosphate, ammonium phosphate, some organic materials, etc.

^{5/} Includes the available P₂O₅ content of colloidal phosphate and phosphate rock as 2 percent and 3 percent, respectively.

F.S. ROYSTER GUANO CO.



MANUFACTURERS OF
COMMERCIAL FERTILIZER
AND DEALERS IN
FERTILIZER MATERIALS

OFFICES AND FACTORIES

NORFOLK, VIRGINIA

Lynchburg, Va.

Tarboro, N. C.

Washington, N. C.

Wilmington, N. C.

Charlotte, N. C.

Charleston, S. C.

Columbia, S. C.

Spartanburg, S. C.

Atlanta, Ga.

Macon, Ga.

Bessemer, Ala.

Montgomery, Ala.

Mulberry, Fla.

Jackson, Miss.

Baltimore, Md.

Lyons, N. Y.

Toledo, Ohio

Indianapolis, Ind.

Madison, Wis.

Dependable Farm Chemicals from CYANAMID

NITROGEN FERTILIZERS

AERO® Cyanamid, Granular—20% nitrogen. For direct application.

AERO® Cyanamid, Granular, Mixers Grade—20% nitrogen.

AEROPRILLS® Fertilizer Grade Ammonium Nitrate—33.5% nitrogen.

DEFOLIANTS

AERO® Cyanamid, Special Grade—cotton defoliation and other uses.

AERO® Sodium Cyanamid, Dust—for cotton defoliation in arid areas.

AERO® Cyanamid, Soluble—spray defoliant for cotton.

AERO® Cyanate, Weedkiller—for onions and other crops.

Potassium Cyanate—for crabgrass and chickweed compounds.

SOIL CONDITIONER

AEROTIL® Soil Conditioner—active ingredient hydrolyzed polyacrylonitrile. Dry form, 40% active ingredient; wettable flakes, 83% active ingredient.

HIGH GRADE FLORIDA PHOSPHATE ROCK

Washed and Dried Pebble Rock—for manufacture of superphosphate and phosphatic compounds.

Ground Florida Phosphate—various fine grinds for acidulation.

AERO-PHOS® Florida Natural Phosphate 33% Total P₂O₅—finely ground. Applied directly for soil improvement.

FUMIGANTS

AERO® HCN Discoids—cellulosic discs saturated with hydrocyanic acid, for industrial fumigation.

AERO® Liquid HCN—cylinders of hydrocyanic acid, for quick, clean control of insect and rodent infestation.

ACRYLON® Fumigant—for spot fumigation.

INSECTICIDES AND RODENTICIDES

THIOPHOS® Parathion—outstanding technical material for parathion insecticides.

MALATHON Technical—outstanding insecticide used on fruit and vegetable crops for control of mites, aphids and certain other insects.

CYANOGEN® Calcium Cyanide

CYANOGEN ANT KILLER—sea-sand size. Kills ants in their nests.

CYANOGEN A-DUST—finely powdered. Kills insect and rodent pests in their nest or burrows.

CYANOGEN G-FUMIGANT—sea-sand size. For control of insects and rodents in greenhouses and mushroom houses. Mixed with grain to control infestation in elevators.

CYANOGEN GRANULAR—slightly coarser. For soil fumigation to control wireworms and nematodes.

CYANOGEN FLAKES—large flat particles for control of prairie dogs.

CYANOGEN FOOT PUMP—rugged duster for application of Cyanogen A-Dust.

WETTING AGENTS

VATSOL® OT—one of the most powerful wetting agents available. Several grades—100% pellets, 85% paste, 70% liquid, 25% aqueous.

VATSOL OT-B—free-flowing white powder, spray-dried in very fine form, high rate of solubility.

*Trade-mark

See your supplier. Write for descriptive literature.

AMERICAN Cyanamid COMPANY

AGRICULTURAL CHEMICALS DIVISION

30 Rockefeller Plaza, New York 20, N. Y.

YEAR BOOK, SEPTEMBER, 1953

tables from those of former years. The quantities of secondary and minor element materials were taken out of the totals (Table 4) and are shown separately for each of the States. In Table 5, though shown separately, they are included in the grand totals for each of the regions. This has been done to show more clearly the trends in consumption of materials that contain only the primary plant nutrients.

The classes of materials consumed were, in order of their proportions, phosphates 3,314,156 tons (45.1 percent), chemical nitrogen materials 2,582,924 tons (35.1 percent), secondary and minor element materials 785,050 tons (10.7 percent), natural organics 343,815 tons (4.7 percent), and potassium materials 320,124 tons (4.4 percent).

The principal net changes in consumption from 1950-51 in chemical nitrogen materials were the increases in anhydrous ammonia (42.1 percent), ammonium nitrate—limestone mixtures (33.8 percent), and ammonium nitrate (25.2 percent) while calcium cyanamide decreased 34.2 percent. Consumption of normal and concentrated superphosphates was 20.2 and 6.1 percent less than in 1950-51, respectively. Consumption of the other phosphate materials were lower than in 1950-51 in about one-half of the States while their use was greater in the remaining States. A net increase in consumption approximating 5 percent resulted. Consumption of the principal potassium materials, potassium chloride, 50 and 60 percent grades, and postassium sulfate, were 10.8, 56.6, and 9.2 percent greater than in 1950-51, respectively. In comparison with changes in other regions, the rate of increase for chemical nitrogen materials was highest in the

East North Central region; for natural organics and phosphates, in the Mountain region; and for potassium materials in the West North Central region. Decreases in consumption occurred in some regions. The highest decrease in chemical nitrogen materials was in the Territories; for natural organics, in the South Atlantic region; and for phosphate and potassium materials, in the New England region.

The weighted average content of primary nutrients in materials is given, for the first time, by States, in Table 7. These averages are based on the composition and amount consumed, in the State, of the individual materials coming within the class. The data show the average quality of the materials composing the class that are used for direct application in the agriculture of each State. The national average, in percent, for materials that contain only nitrogen was 28.06, those containing only P.O. 14.71 (available P.O.); only K.O. 49.98; and those having more than one nutrient 20.97.

Primary Plant Nutrients

Table 6, shows the consumption of primary plant nutrients, by States, while Figure 2, shows the total tonnage consumed in each region in comparison with consumption in 1950-51. These values are based on the amounts of fertilizer reported herein and their average analysis as found by the fertilizer control officials of the respective state in which these fertilizers were consumed. The national consumption of primary nutrients during the year ended June 30, 1952, was nitrogen 1,424,730; available P.O. 2,199,376 (total P.O. 2,678,070); and K.O. 1,581,467 tons. These quantities represented net increases over 1950-51

in nitrogen of 187,803 tons, available P.O. 89,476 tons, (total P.O. 141,082 tons), and K.O. 201,654 tons. Consumption of primary nutrients was, therefore, 15.2, 4.2, (5.6), and 14.6 percent greater than in 1950-51, respectively.

The amounts and proportions of the total quantity of nutrients consumed through mixed fertilizers were 648,223 tons or 45.5 percent of the nitrogen, 1,680,705 tons (76.4 percent) of the available P.O., 1,806,523 tons (67.4 percent) of the total P.O., and 1,420,395 tons (89.8 percent) of the K.O. In 1951-52, the amounts consumed in mixed fertilizers were for nitrogen 11.0, available P.O. 9.0, total P.O. 9.0, and K.O. 13.2 percent greater than in 1950-51. While the amounts of nutrients consumed in materials were 18.9 and 29.0 percent greater for nitrogen and K.O., respectively, they were 8.7 and 0.9 percent less, for available P.O. and total P.O., respectively, than in 1950-51. Total primary nutrients consumed in 1950-51 and in 1951-52 were 4,726,690 tons and 5,205,623 tons, respectively, a net increase of 478,933 tons or 10.1 percent in comparison with the increase of 6.4 percent for tonnage of fertilizers containing these nutrients.

Literature Cited

1. Scholl, W., Wallace, H. M., Consumption of Commercial Fertilizers in the U. S. 1950-51. Commercial Fertilizer 84, No. 6, 20-21, 24-25, 28-29, 34, 36, 40-41 (1952).
2. Mehring, A. L., Vincent, G. P. Fertilizer Consumption in 1941 and Trends in Usage, U. S. D. A. Cir. No. 639 Oct. 1943.
3. ———, Wallace, H. M., and Drain M., Consumption and Trends in the Use of Fertilizers in the Year Ended June 30, 1944. U. S. D. A. Cir. No. 756, Nov. 1946.

Gascoyne & Company, Inc.

Established 1887

Analytical and Consulting Chemists

27 South Gay Street

BALTIMORE 2, MD.

MATHIESON

agricultural chemicals

high analysis
pelletized fertilizers:

AMMO-PHOS® grades
16-20-0 13-39-0
12-24-12 13-13-13

also regular grades
mixed fertilizer

anhydrous ammonia
superphosphate
ammonium sulphate
nitrate of soda
base goods

DISTRICT SALES OFFICES:

Baltimore 3, Maryland
Houston 2, Texas
Jackson, Mississippi
Lebanon, Pennsylvania
Little Rock, Arkansas
Phoenix, Arizona
St. Louis 2, Missouri
Williamston, North Carolina



MATHIESON



For complete information write:

MATHIESON CHEMICAL CORPORATION

Mathieson Agricultural Chemicals Division

Little Rock, Arkansas

Florida Pebble Phosphate Rock

All Commercial Grades—Dried • Ground

and

Defluorinated Phosphate Rock

Two Grades—17% and 14.5% Phosphorus



CORONET PHOSPHATE COMPANY

A DIVISION OF SMITH-DOUGLASS COMPANY, INCORPORATED

19 RECTOR STREET • NEW YORK 6, N. Y.

NFA FISCAL YEAR 1952 REPORT ON CONSUMPTION

By JOHN F. GALE, NFA Economist

1952 Fertilizer Consumption Up 6.9 Percent Over 1951 (In Short Tons)

Region	Tons Consumed 1951	Tons Consumed 1952	Tons Increase	Percent Increase 1952 over 1951	Percent of Total 1952
New England	459,007	474,788	15,781	3.4	2.4
Middle Atlantic	1,486,299	1,514,182	27,883	1.9	7.5
East North Central	3,388,970	3,956,916	567,946	16.8	19.6
West North Central	1,330,295	1,570,818	240,523	18.1	7.8
South Atlantic	6,438,237	6,838,414	400,177	6.2	34.0
South Central	4,465,111	4,483,104	17,993	.4	22.3
Western	1,258,188	1,280,817	22,629	1.8	6.4
Total	18,826,107	20,119,039	1,292,932	6.9	100.0

Prepared by: The National Fertilizer Association

Sparked by a tremendous half-million ton upsurge in fertilizer use in the East North Central States (Ohio, Indiana, Illinois, Michigan and Wisconsin), domestic fertilizer consumption bounced to a record high of 20,119,039 tons in 1952. This is 1,292,932 tons more than the 18,826,107 tons used during 1951. Percentagewise, the increase is 6.9.

Commercial sales accounted for the lion's share—20,036,122 tons. Direct governmental distribution of fertilizer totaled a mild 82,917 tons. Of this amount, the equivalent of 67,291 tons was portioned out under contract during the calendar year 1952, as conservation material by the U.S. Department of Agriculture. The balance, 15,626 tons, was used in the Tennessee Valley Authority test and demonstration program. For the first time since 1938, when slightly more

the 81,000 tons were allotted, direct government distribution fell below 100,000 tons. The high-watermark was reached in 1942 when farmers used 1,227,000 tons obtained from governmental sources. The current downturn is no indication, however, that Uncle Sam is going out of the fertilizer business. During the 1951-52 fiscal year ending June 30, TVA produced 197,207 tons of ammonium nitrate fertilizer, 140,000 tons of concentrated superphosphate, and other phosphatic fertilizers containing 25,045 tons of P.O.

For this report, the country is partitioned into seven geographical regions. In these regions, the greatest increase, tonnagewise, was reported in the East North Central States. Farmers in these five States used 3,956,916 tons of fertilizer last year, half a million tons more than the 3,

388,970 tons used in 1951.

Following are the highlights of the regional fertilizer consumption picture:

NEW ENGLAND — Reversing a downturn in fertilizer use which started in 1948, farmers in this region used 474,788 tons of fertilizer last year—15,781 tons more fertilizer (a 3.4 percent increase) than they did in 1951 when consumption was 459,000 tons. As in past years, Maine with 216,917 tons accounted for almost half the fertilizer used in this area.

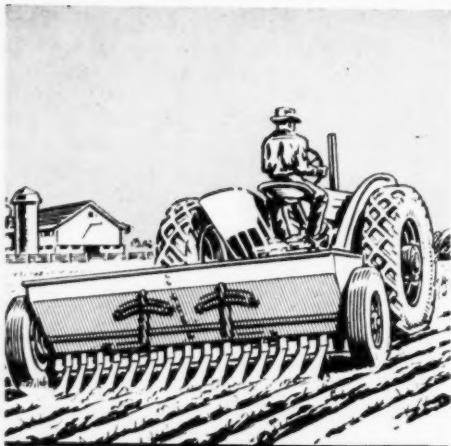
MIDDLE ATLANTIC — New Jersey farmers increased their use of fertilizer by some 24,000 tons; from 247,000 tons two years ago to 271,000 tons in 1952. Consumption for the three States in this region — New York, New Jersey and Pennsylvania — increased 1.9 percent to 1,514,182 tons last year.

EAST NORTH CENTRAL — History was made in this region in 1952! For the first time farmers in States outside of the long-time, fertilizer-using South used more than a million tons of fertilizer. Ohio with 1,113,938 tons and Indiana with 1,049,415 tons both passed the million-ton mark. Also noteworthy is the fact that this region experienced the greatest tonnage increase in fertilizer use. A gain of 567,946 tons was recorded last year as consumption jumped from 3,388,970 tons in 1951 to 3,956,916 tons last year.

WEST NORTH CENTRAL — The only region in which each State showed an increase in fertilizer consumption in 1952 compared with 1951 is this group of seven States. Also, the percentage increase—18.1 percent—is the greatest for any single geographical area. The largest individual State increase in fertilizer

ANNUAL FERTILIZER CONSUMPTION IN THE UNITED STATES (Short Tons)

Year	Tonnage	Year	Tonnage	Year	Tonnage	Year	Tonnage		
							Total Tonnage	Commercial Sales	Government Direct Distribution
1880	1,150,000	1919	6,626,000	1930	8,222,000	1941	9,183,000	8,332,000	851,000
1890	1,950,000	1920	7,177,000	1931	6,354,000	1942	9,949,000	8,722,000	1,227,000
1900	2,200,000	1921	4,863,000	1932	4,385,000	1943	11,463,000	10,564,000	899,000
1910	5,453,000	1922	5,671,000	1933	4,908,000	1944	12,055,000	11,202,000	853,000
1911	6,024,000	1923	6,445,000	1934	5,583,000	1945	13,202,000	12,300,000	902,000
1912	5,767,000	1924	6,826,000	1935	6,276,000	1946	14,892,000	14,512,000	362,000
1913	6,337,000	1925	7,334,000	1936	6,931,000	1947	15,039,000	14,787,000	252,000
1914	7,100,000	1926	7,329,000	1937	8,226,000	1948	15,980,000	15,773,000	207,000
1915	5,324,000	1927	6,844,000	1938	7,545,000	1949	16,449,000	16,291,000	158,000
1916	5,125,000	1928	7,986,000	1939	7,707,000	1950	17,984,000	17,871,000	113,000
1917	5,926,000	1929	8,012,000	1940	8,249,000	1951	18,826,000	18,689,000	146,000
1918	6,467,000						20,119,000	20,036,000	83,000



COPPER SULPHATE
ZINC SULPHATE
MANGANESE SULPHATE
MAGNESIUM SULPHATE
BORON
FERRIC IRON SULPHATE

TC
TENNESSEE CORPORATION

MINERAL SALTS

Minerals are just as essential to healthy plant growth and optimum production of vitamin-rich crops as are nitrogen, potash and phosphate. Mineralized fertilizer stimulates sales and creates new business because the results are conclusive. Fertilizers that give superior results are the fertilizers that the growers buy.

As basic producers of minerals, we would like to discuss mineralized fertilizer with you and show you how to increase your fertilizer tonnage and profits by the addition of minerals.

We can supply mineral mixtures to your own specifications in large or small quantities.

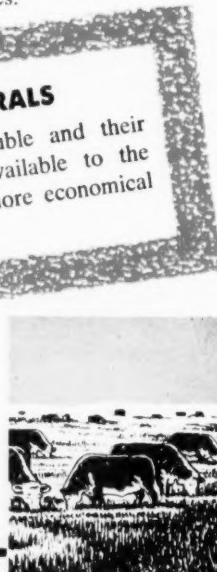
SOLUBLE TRACE MINERALS

Tennessee's trace minerals are soluble and their nutritional value is immediately available to the plant. Soluble trace minerals are more economical and faster acting.

For detailed information,
phone, wire or write—

TENNESSEE CORPORATION

617-29 Grant Building, Atlanta, Georgia





One-Stop NITROGEN Service
For Fertilizer Manufacturers



Nitrogen

FERTILIZER MATERIALS

LION ANHYDROUS AMMONIA—For formulation. A uniformly high-quality basic product. Nitrogen content, 82.25%.

LION AQUA AMMONIA—For formulation or acid oxidation. Ammonia content about 30%. Other grades to suit you.

LION AMMONIUM NITRATE FERTILIZER—For direct application or formulation. Improved spherical pellets. Guaranteed 33.5% nitrogen.

LION NITROGEN FERTILIZER SOLUTIONS—For formulation. Three types to suit varying weather and manufacturing conditions.

LION SULPHATE OF AMMONIA—For direct application or formulation. Large free-flowing crystals. Guaranteed nitrogen content, 21%.

TECHNICAL SERVICE—Lion provides special technical assistance for fertilizer manufacturers. Write to CHEMICAL SALES DIVISION for quick service.

LION OIL COMPANY

EL DORADO, ARKANSAS

use was for Missouri, up more than 105,000 tons.

SOUTH ATLANTIC—This is the home of the giant—North Carolina. Last year slightly more than nine

percent of all fertilizer consumed in the country was used in the Tarheel State. Almost as much fertilizer was used in this single State—1,872,685 tons—as was used in the nine

New England and Middle Atlantic States (1,988,970 tons). Farmers in the region as a whole used 34 percent of all the fertilizer used in this country.

FERTILIZER CONSUMPTION IN THE UNITED STATES (Short Tons)

STATE	TOTAL CONSUMPTION					1952			Government Distribution	
	1942	1948	1949	1950	1951	Total Consumption	Commercial Sales	ACP Program ¹	TVA Demonstration Program	
NEW ENGLAND	390,327	536,189	512,429	474,486	459,007	474,782	423,387	51,401	0	
Maine	153,442	263,994	228,156	200,069	172,219	216,917	201,686	15,231	0	
New Hampshire	27,621	29,610	26,223	27,879	23,280	16,589	15,277	1,312	0	
Vermont	42,202	54,146	56,932	50,722	66,164	46,186	21,266	24,920	0	
Massachusetts	81,876	85,885	87,483	88,334	86,620	95,448	90,791	4,657	0	
Rhode Island	14,448	19,045	21,126	16,402	17,419	16,309	15,143	1,166	0	
Connecticut	70,738	83,509	92,509	91,080	93,305	83,339	79,224	4,115	0	
MIDDLE ATLANTIC	1,061,717	1,319,692	1,440,602	1,445,203	1,486,299	1,514,182	1,514,182	0	0	
New York	465,665	580,000	575,000	609,500	625,000	631,250	631,250	0	0	
New Jersey	212,079	254,837	259,631	249,347	246,710	270,505	270,505	0	0	
Pennsylvania	383,973	484,855	605,971	586,356	614,589	612,427	612,427	0	0	
EAST NORTH CENTRAL	1,358,619	2,973,162	2,800,409	3,212,358	3,388,970	3,956,916	3,943,725	12,568	623	
Ohio	462,434	890,977	891,609	923,727	930,463	1,113,968	1,113,781	0	187	
Indiana	357,366	810,241	741,372	921,680	891,635	1,049,415	1,048,901	340	174	
Illinois	84,130	439,183	396,775	474,234	546,668	834,679	834,679	0	0	
Michigan	259,495	417,401	441,440	506,743	540,901	601,205	588,977	12,228	0	
Wisconsin	195,174	415,360	329,213	384,974	379,303	357,649	357,387	0	262	
WEST NORTH CENTRAL	245,876	1,130,100	1,162,234	1,117,843	1,330,295	1,570,818	1,570,333	0	485	
Minnesota	47,736	214,987	250,660	217,133	200,936	212,701	212,701	0	0	
Iowa	45,536	295,837	265,681	314,037	396,263	402,613	402,471	0	142	
Missouri	120,119	422,867	454,635	365,672	465,319	570,886	570,825	0	61	
North Dakota	2,350	30,000	21,060	20,173	20,880	34,128	34,128	0	0	
South Dakota	700	10,000	10,000	6,135	7,651	11,201	11,049	0	152	
Nebraska	2,400	40,000	32,760	47,067	77,595	100,848	100,718	0	130	
Kansas	27,035	116,409	127,438	147,626	161,651	238,441	238,441	0	0	
SOUTH ATLANTIC	4,325,315	5,386,970	5,811,850	6,354,362	6,438,237	6,838,414	6,834,448	0	3,966	
Delaware	37,606	55,000	57,000	58,845	69,797	81,259	81,259	0	0	
Maryland	185,399	233,253	245,039	252,644	272,292	286,687	286,687	0	0	
District of Columbia	2,000	2,500	2,000	2,000	2,000	2,400	2,400	0	0	
Virginia	513,478	638,195	685,863	767,932	807,359	845,721	843,984	0	1,737*	
West Virginia	91,405	89,001	101,826	104,467	103,927	96,334	96,334	0	0	
North Carolina	1,277,978	1,554,581	1,307,847	1,818,921	1,766,479	1,872,685	1,871,436	0	1,249*	
South Carolina	703,557	883,803	962,932	1,014,253	938,936	971,565	971,316	0	249	
Georgia	920,019	1,182,614	1,235,261	1,137,932	1,273,136	1,393,985	1,393,254	0	731*	
Florida	593,903	748,023	984,092	1,097,368	1,205,211	1,287,778	1,287,778	0	0	
SOUTH CENTRAL	2,145,569	3,689,190	3,839,545	4,304,500	4,465,111	4,483,104	4,470,794	2,040	10,270	
Kentucky	331,930	594,521	528,794	620,938	559,274	599,643	596,200	2,040	1,403*	
Tennessee	279,157	465,528	481,191	502,722	608,969	595,078	590,413	0	4,665*	
Alabama	625,655	966,240	1,045,979	1,074,754	1,094,648	1,115,893	1,112,680	0	3,213*	
Mississippi	399,224	586,334	579,356	764,437	764,051	707,473	706,747	0	726*	
Arkansas	164,616	253,070	334,742	405,184	415,091	365,528	365,528	0	0	
Louisiana	182,050	235,123	241,589	278,708	302,623	335,805	335,805	0	0	
Oklahoma	14,691	120,886	125,644	114,031	152,279	181,901	181,709	0	192	
Texas	148,246	467,488	502,250	572,723	568,176	581,783	581,712	0	71	
WESTERN	421,136	944,398	882,019	1,075,236	1,258,188	1,280,817	1,279,253	1,282	282	
Montana	4,500	15,000	18,000	16,000	18,000	20,000	20,000	0	0	
Idaho	10,319	65,106	80,088	65,050	60,000	50,000	50,000	0	0	
Wyoming	2,000	4,500	5,500	6,500	7,000	7,000	7,000	0	0	
Colorado	8,264	36,401	31,354	37,974	49,695	44,233	44,233	0	0	
New Mexico	4,172	13,018	14,051	13,494	20,015	22,722	22,717	0	5	
Arizona	10,276	56,784	46,099	106,900	109,234	109,234	109,234	0	0	
Utah	4,014	15,910	16,487	28,554	30,053	25,513	25,425	0	88	
Nevada	600	1,500	2,000	1,940	2,691	2,874	2,874	0	0	
Washington	49,505	100,141	80,118	81,147	86,147	91,488	91,357	0	131	
Oregon	25,041	86,695	75,285	107,931	100,350	119,695	119,637	0	58	
California	302,445	549,343	513,037	640,646	777,777	788,058	786,776	1,282	0	
UNITED STATES	9,948,589	15,979,701	16,449,088	17,983,988	18,826,107	20,119,039	20,036,122	67,291	15,626	

* States or areas included in Tennessee River Valley.

† Revised.

‡ Preliminary Estimates.

Despite the fact that yields on many of the farms in these States have been enhanced by the use of fertilizer for more than a century, consumption in the area has by no means stabilized. This region is second only to the East North Central States in terms of net gain in fertilizer use as consumption zoomed to a tremendous 6,838,414 tons, 400,177 tons above the 6,438,237 tons used in 1951.

SOUTH CENTRAL — Almost 4,500,000 tons of fertilizer were used in the eight States comprising this area. Farmers in these States, hit by drought in some instances of two or three years duration, used little more fertilizer in 1952 than they did in the preceding year. The increase, 18,000 tons—from 4,465,111 tons to 4,483,104 tons—is only four-tenths of one percent, the smallest in the country.

WESTERN — Small increases in fertilizer use were recorded in most of the 11 western States including the Rocky Mountain and Pacific Coast States. Oregon farmers increased their use of fertilizer by about 19,000 tons, which represents all but 3,500 tons of the 22,629-ton increase registered for the region as a whole. Small declines in fertilizer use in Idaho, Colorado and Utah offset California's 10,000-ton increase in fertilizer use from 777,777 tons in 1951 to 788,058 tons last year.

This report is a compilation of reports furnished The National Fertilizer Association by the fertilizer control officials of most States. Only the splendid cooperation of these gentlemen makes this report possible. In the few States where a record of fertilizer consumption is not required by State fertilizer laws, estimates of consumption were made by responsible fertilizer manufacturers.

(**Author's Note:** Occasionally the question is asked, "Why don't NFA's fertilizer consumption figures agree with those published annually by the Bureau of Plant Industry, U. S. Department of Agriculture?"

The answer to this question is twofold. In the first place, NFA's report covers the calendar year. The 1952 NFA consumption report includes all fertilizer used in this country from January 1, 1952, to December 31, 1952. On the other hand, USDA's 1952

report shows fertilizer consumption for the fiscal year, the so-called calendar year, from July 1, 1951, to June 30, 1952. Secondly, NFA reports all fertilizer materials except raw phosphate rock, colloidal phosphate, gypsum, sulfur, and minor tonnages of other soil amendments. As a result, our tonnage figure for a given State may be less than USDA's figure simply because NFA's figures do not include these materials.)

ASSOCIATIONS OF THE INDUSTRY

Agricultural Ammonia Institute

Jack F. Criswell, Exec. Sec.
Claridge Hotel
Memphis, Tenn.

American Chemical Society

60 E. 42nd St.
New York, N. Y.

American Plant Food Council, Inc.

Louis Wilson, Director of Information
Barr Bldg.
Washington, D. C.

American Potash Institute

Dr. H. B. Mann, President
1102 16th St., N. W.
Washington, D. C.

American Society of Agronomy

270 Monroe St.
Madison, Wisc.

California Fertilizer Association

Sidney Bierly, Executive Secretary and Manager
475 Huntington Drive
San Marino 9, Calif.

Canadian Agricultural Chemicals Association

J. H. D. Ross, President
Box 10
Montreal, Canada

Coke Oven Ammonia Research Bureau

H. H. Tucker, Director
8 E. Long St.
Columbus, Ohio

Georgia Plant Food Educational Society

Cooper Morecock, Sec.
Mortgage Guarantee Bldg.
Atlanta, Ga.

Louisiana Plant Food Educational Society, Inc.

M. T. Addington, Sec.

P. O. Box 843
Baton Rouge, La.

Middle West Soil Improvement Committee

Z. H. Beers
121 W. Wacker Drive
Chicago, Ill.

National Agricultural Chemicals Assoc.

Lea S. Hitchner, Exec. Sec.
Barr Bldg.
Washington, D. C.

National Fertilizer Association

John F. Gale, Director of Information
616 Investment Bldg.
Washington, D. C.

National Safety Council

Fertilizer Section
425 N. Michigan Ave.
Chicago, Ill.

Oklahoma Plant Food Association, Inc.

L. L. Jaquier, Sec.
Bartlesville, Okla.

Pacific Northwest Plant Food Association

Leon S. Jackson, Sec.
810 Lewis Bldg.
Portland 4, Oregon

Plant Food Producers of Canada

C. W. Jarvis, Sec.
Toronto, Canada

South Carolina Plant Food Educational Society

L. G. McCraw, Sec.
Sandy Springs, S. C.

Texas Plant Food Educational Society, Inc.

B. L. Henderson, Sec.
102 Japhet St.
Houston, Texas

PLANTERS FERTILIZER & PHOSPHATE COMPANY

Manufacturers of

Sulphuric Acid, Superphosphate, Ammoniated Superphosphate Base,
Mixed Goods.

CHARLESTON, S. C.

Box 865

Attractive....



Hammond Multi-Walls

For Multi-Wall bags, "make it a habit to depend on Hammond."

HAMMOND BAG & PAPER COMPANY

General Offices: Wellsburg, W. Va.

Plants in Wellsburg, W. Va., Pine Bluff, Ark., and Charlotte, N. C.

Representatives in the following cities: CHICAGO, ILL. • BLUEFIELD, VA. • ST. LOUIS, MO. • KANSAS CITY • MINNEAPOLIS, MINN.
• LIGONIER, PA. • WASHINGTON, D. C. • NEW YORK, N. Y. • AKRON, OHIO • DALLAS, TEXAS

Brilliant multi-color printing of your brands on Hammond Multi-Walls . . . combined with the uniform high quality of papers and materials used in their production, provide you with shipping containers second to none. Manufactured to exacting standards every step of the way, Hammond Multi-Walls are attractive and strong for safe, economical delivery of your products. Consult your Hammond man today.



These cribs are loaded to the brim with ripe, golden ears every harvest time. Here, in the heart of America's great corn belt, record crops are brought in each year. Farmers and business-men know it pays to build peak production.



REG. U. S. PAT. OFF.

**HIGRADE MURIATE OF POTASH 62/63% K₂O
GRANULAR MURIATE OF POTASH 48/52% K₂O
MANURE SALTS 20% K₂O MIN.**

From the soil, ultimate source of all growth, spring these rich yields. Yearly, the growing crops draw vital plant-food elements from the soil. Fertilizers help restore these elements.

Many of the most effective fertilizers contain POTASH, often Sunshine State Potash, of New Mexico. POTASH not only nourishes the soil, it strengthens crop resistance to drought and disease. POTASH has proven itself a valuable aid in producing peak production and profit.

UNITED STATES POTASH COMPANY, Incorporated, 30 Rockefeller Plaza, New York 20, N. Y.

YEAR BOOK, SEPTEMBER, 1953

FERTILIZER CONTROL

OFFICIALS

United States, Canada, Hawaii, Puerto Rico

The names of the officials to be addressed in reference to fertilizer materials in each state that has fertilizer laws.

ALABAMA—

Frank M. Stewart, Commissioner of Agriculture; Geo. H. Marsh, Director Div. of Agricultural Chemistry, 515 Dexter Ave., Montgomery.

ARIZONA—

W. T. McGeorge, State Chemist, University of Arizona, Tucson; Cecil O'Harrow, Inspector, P. O. Box 751, Phoenix.

ARKANSAS—

W. F. Mangelsdorf, Chief Chemist, Little Rock; Paul H. Miller, Chief Inspector, State Plant Board, 506½ Center St., Little Rock.

CALIFORNIA—

State of California, Department of Agriculture, A. A. Brock, Director; Allen B. Lemmon, Chief, Bureau of Chemistry, State Office Bldg., Tenth & L Sts., Sacramento 14.

CANADA—

G. W. Michael, Associate Chief, Dept. of Agriculture, Confederation Bldg., Ottawa; C. V. Marshall, Superintendent Chemical Laboratory, Dept. of Agriculture, 73 Sussex St., Ottawa.

COLORADO—

Robert Gardner, Agronomist, Colorado A&M College, Ft. Collins; John A. Hinsey, Supervisor, Feed & Fertilizer Control Division, 3130 Zuni St., Denver 2.

CONNECTICUT—

The Connecticut Agricultural Experiment Station, H. J. Fisher, P.O. Box 1106, New Haven.

DELAWARE—

State Board of Agriculture J. L. Clough, Acting Secretary (until permanent secy. is appointed); John L. Clough, Director, State Laboratory; James B. Kilvington, State Chemist.

FLORIDA—

Nathan Mayo, Commissioner of Agriculture, Tallahassee; J. J.

Taylor, State Chemist, Agriculture Dept., Tallahassee.

GEORGIA—

Tom Linder, Commissioner of Agriculture; C. R. Clark, State Chemist, Dept. of Agriculture, 254 Capitol Place, Atlanta 3; A. M. Lott, Chief Fertilizer Inspector, 224 State Capitol, Atlanta 3.

HAWAII—

George H. Akau, Food Commissioner and Analyst, T.H. Has no fertilizer laws and no fertilizer official.

IDAHO—

D. A. Stubblefield, Commissioner of Agriculture, Boise; D. H. Baker, Supervisor, Feed & Fert. Control Div.

ILLINOIS—

Stillman J. Stanard, Director of Agriculture, Springfield; Lowell D. Oranger, Supt. Div. of Foods, Dairies and Standards, 160 N. La-Salle St., Chicago.

INDIANA—

F. W. Quackenbush, State Chemist; and O. W. Ford, Associate Chemist, Purdue, Univ., Lafayette.

IOWA—

Clyde Spry, Secretary of Agriculture, Des Moines; R. W. Borgeson, State Chemist, E. 7th & Court St., Des Moines.

KANSAS—

Roy Freeland, Secretary of the State Board of Agriculture, Topeka; John L. Monaghan, Director, Control Division, Board of Agriculture, Topeka.

KENTUCKY—

Bruce Poundstone, Head, Dept. Feed & Fertilizer, Univ. Ky. Agri. Exp. Station, Lexington.

LOUISIANA—

Commissioner Agriculture and Immigration, Dave L. Pearce, P. O. Box 951, Baton Rouge 1; Millard S. Perkins, Assistant Commissioner in charge of Feed, Fer-

tilizer and Pesticides Registrations, P. O. Box 951, Baton Rouge 1; Ernest A. Epps, Jr., Chief Chemist, and J. H. Sharp, Chief Inspector, Dept. Agri. & Immigration, P. O. Box 589, Baton Rouge.

MAINE—

Fred J. Nutter, Commissioner; C. P. Osgood, Chief Division of Inspection, Department of Agriculture, Augusta; E. R. Tobey, Chemist, Agricultural Experiment Station, Orono.

MARYLAND—

L. E. Bopst, State Chemist, Univ. of Md., College Park.

MASSACHUSETTS—

John W. Kuzmeski, Official Chemist, Fertilizer Control, Univ. of Mass. Agri. Exp. Sta. Amherst.

MICHIGAN—

W. C. Geagley, Chief Chemist, Bureau Chemical Laboratories, Dept. of Agriculture, Lansing.

MINNESOTA—

Myron W. Clark, Commissioner, Department of Agriculture, Dairy and Food State Office Bldg., St. Paul; H. A. Halvorson, Chemist in Charge, State Office Bldg., St. Paul.

MISSISSIPPI—

Si Corley, Commissioner of Agriculture and Commerce, Jackson; Garland F. Vaughn, Chief Inspector, Department of Agriculture; M. P. Etheridge, State Chemist, P. O. Box 1536, State College, Miss.

MISSOURI—

R. C. Prewitt, Supervisor, Fert. Inspection & Charles W. Gehrke, Assoc. Prof. of Agr. Chem., University of Missouri, Columbia; R. C. Prewitt, in charge Fert. Inspection, 22 Munford Hall, Columbia; J. H. Longwell, Director Experiment Station, Columbia.

MONTANA—

Albert H. Kruse, Commissioner of Agriculture, Helena.

NEBRASKA—

Ed. Hoyt, Director; G. B. Flagg, Chief of Bureau, Department of Agriculture and Inspection, Lincoln; B. D. Hites, State Chemist.

NEVADA—

State Department of Agriculture P. O. Box 1027; George G. Schweis, Director State Department of Agriculture, Reno.

NEW HAMPSHIRE—

George H. Laramie, Fert. Control Supervisor, State House, Concord; Henry A. Davis, Asst. Chemist, Dept. Agr. & Bio. Chem. Durham, N. H.

NEW JERSEY—

Stacy B. Randle, State Chemist, N. J. Agric. Exp. Station, New Brunswick; Firman Bear Chairman of the Soils Dept., N. J. Agric. Exp. Sta., New Brunswick.

NEW MEXICO—

R. W. Ludwick, Deputy in charge, Feed & Fertilizer Control Office, State College.

NEW YORK—

C. Chester DuMond, Commissioner of Agriculture and Markets, C. R. Plum, Director of Food Control Bureau, Margaret Werkeng in Charge of Fertilizer Work in Food Control Bureau, Albany; analytical work done at State Agricultural Experiment Station, Geneva; A. J. Heinicke, Director; Kenneth C. Beeson, Ithaca; Ward R. Flach, Box 948, Buffalo, A. W. Avens, Assoc. Prof. Chemistry, New York State Agric. Exp. Sta., Cornell University, Geneva.

NORTH CAROLINA—

L. Y. Ballentine, Commissioner of Agriculture; A. Hugh Harris Asst. Commissioner; E. W. Constable, State Chemist, North Carolina Dept. of Agriculture, Raleigh. Harry A. Miller, Asst. State Chemist, N. C. Dept. of Agric., Raleigh.

NORTH DAKOTA—

F. W. Lonsbrough, Director; R. O. Baird, Food Commissioner and Chemist, State Laboratories Department, Bank of North Dakota Building, Bismarck, P. O. Box 900.

OHIO—

John W. Baringer, Chief Division of Plant Industry, W. S. Thompson, Laboratory Director; H. S. Foust, Director of Agriculture, Columbus.

OKLAHOMA—

Parks A. Yeats, Director Seed, Feed & Fertilizer Division State Dept. of Agriculture, Oklahoma City.

OREGON—

State Department of Agriculture, Salem, E. L. Peterson, Director; J. D. Patterson, Chief Chemist; O.

K. Beals, Chief, Div. Foods & Dairies, Arthur Cole, Supervisor Feed & Fertilizers, Dept. of Agric. Salem.

PENNSYLVANIA—

W. S. Hagar, Deputy Secretary of Agriculture & Director Bureau of Foods and Chemistry, Delmar K. Myers, chief Chemist, Bur. of Foods & Chemistry, Pennsylvania Department of Agriculture, P. O. Box 108, Harrisburg.

PUERTO RICO—

Rafael Vila-Mayo, Agricultural Chemist; Fertilizers, Cattle Feed, Insecticides and Fungicides Inspection Service, Department of Agriculture and Commerce, San Juan.

RHODE ISLAND—

John L. Rego, Dir. Department of Agriculture & Conservation, Veterans Memorial Bldg., Providence; John B. Smith, State Chemist, University of Rhode Island, Kingston.

SOUTH CAROLINA—

B. D. Cloaninger, Head, Department of Fertilizer Inspection and Analysis, Box 392 Clemson.

SOUTH DAKOTA—

Robert W. Anderson, In charge, Plant Industry, L. V. Ausman, Secretary, State Department of Agriculture, Pierre; D. J. Mitchell, State Chemist, Vermillion.

TENNESSEE—

Buford Ellington, Commissioner of Agriculture, State Office Bldg., Nashville; E. H. Holoman, State Chemist and Glenn Mowery, Chief Chemist; L. C. Jacobs, Director Div. Feeds, Seeds & Fertilizers, Nashville.

TEXAS—

Dr. J. F. Fudge, State Chemist, Texas Agricultural Experiment Station, College Station.

UTAH—

Ariel M. Jorgensen, Commissioner,

Plant Industry Division, Department of Agriculture, Capitol Bldg., Salt Lake City. M. E. Christensen, State Chemist.

VERMONT—

J. E. Carrigan, Director of Experiment Station, Burlington; T. M. Adams, Acting Associate Director, E. R. Boyce, Associate Chemist, Regulatory Service R. T. Wetherbee, Chemist.

VIRGINIA—

Parke C. Brinkley, Commissioner of Agriculture; Rodney C. Berry, Director, Div. of Chemistry, Va. Dept. of Agric. 1123 State Office Bldg., M. B. Rowe, Supervisor of Inspection, Div. of Chemistry, Dept. of Agriculture, 1123 State Office Bldg., Richmond 19, Virginia.

WASHINGTON—

Walter R. Johnson, Supervisor of Feeds, Fertilizers and Livestock Remedies, Old Capitol Bldg., Olympia. John M. Lawrence, Acting State Chemist, Washington State College, Pullman.

WEST VIRGINIA—

J. B. McLaughlin, Commissioner, State Department of Agriculture, Charleston; M. H. Snyder, Chemist, State Dept. of Agriculture, Charleston; Russell V. Hardman, Administrative Asst. Dept. of Agric., Charleston.

WISCONSIN—

W. B. Griem, State Chemist, State Department of Agriculture, Bio-Chemistry Bldg., Madison.

WYOMING—

William L. Chapman, Commissioner of Agriculture, O. H. Engendorff, Deputy Commissioner of Agriculture, State Dept. of Agriculture, 303 Capitol Bldg., Cheyenne, Wyoming; M. M. Feris, State Chemist, Chemistry & Zoology Bldg., Laramie. P. B. Coxe, Dir. Div. of Markets, Dept. of Agric., Cheyenne.

SOUTHERN FERTILIZER & CHEMICAL COMPANY

Main Office: Savannah, Georgia

Superphosphate — Sulphuric Acid — Complete Fertilizers
Ammoniated Superphosphate

Export — Import

Plants: Savannah, Ga., Atlanta, Ga.,
Charleston, S. C., Roebuck, S. C.



FULTON'S FAMOUS FOR:



FULTON QUALITY COTTON BAGS

Whether they're plain white sheeting or colorful prints, Fulton's Cotton Bags are welcomed by farm families as valuable sewing material. They stack, store and handle easier — less waste from breakage.

FULTON QUALITY BURLAP BAGS

Burlap is here again with all its toughness and durability — and at the most attractive prices in years! As large direct importers of burlap, Fulton Burlap Bags are your assurance of uniform quality.

Fulton BAG & COTTON MILLS

Atlanta • St. Louis • Dallas • Denver • New Orleans • Minneapolis • Kansas City, Kans. Los Angeles • New York City • San Francisco Phoenix • Winter Haven, Fla. • Savannah

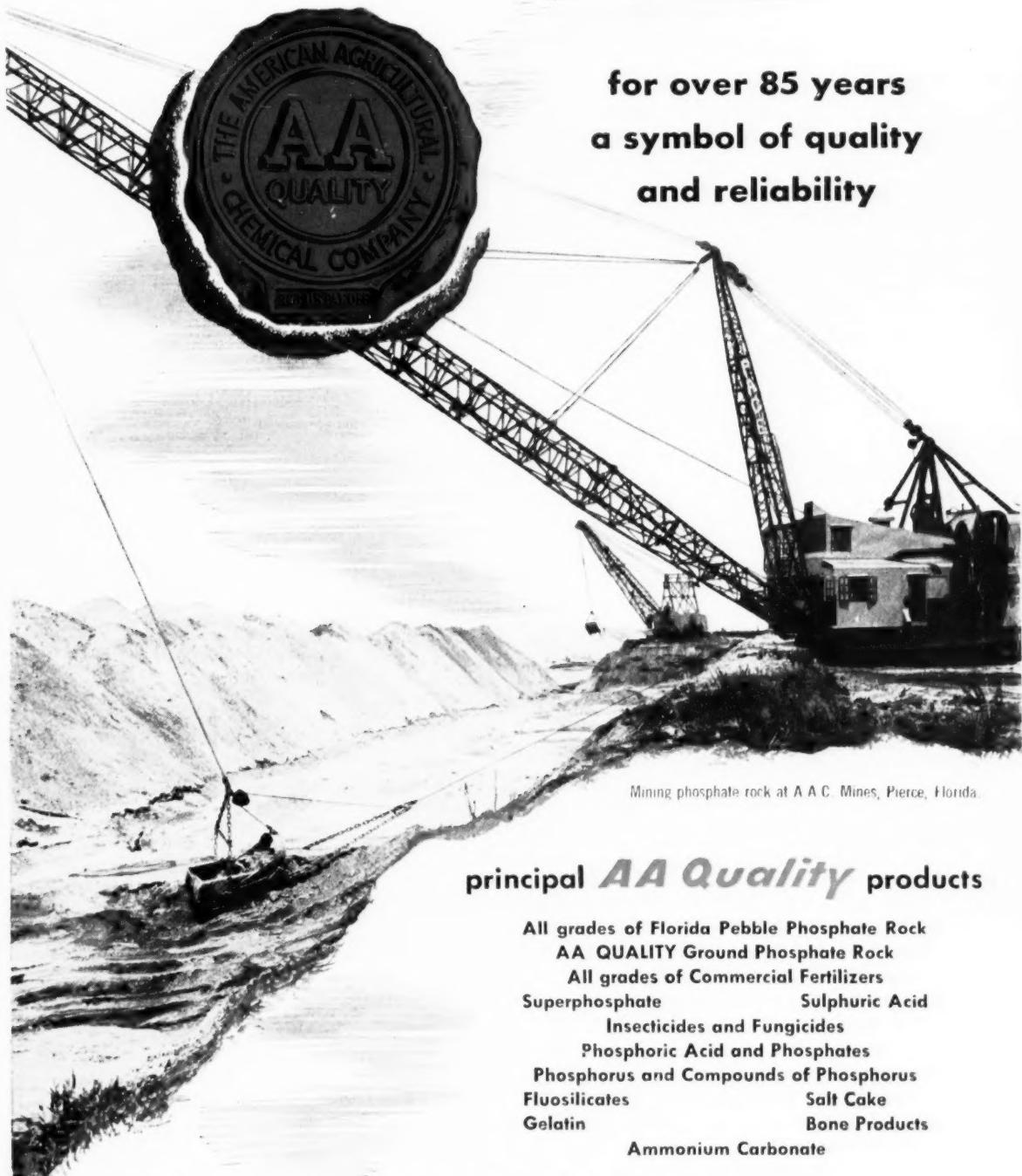
FULTON MULTIWALL PAPER BAGS

Multiwalls of all types — pasted or sewn bottom, open mouth or valve, in every size, are now being manufactured in both the New Orleans and the new Los Angeles plant for speedy, coast-to-coast service.

EAGLE SAIL TWINE and MACHINE THREAD

Manufactured by Fulton also. Let us supply you with these products.

AA Quality...



principal *AA Quality* products

All grades of Florida Pebble Phosphate Rock

AA QUALITY Ground Phosphate Rock

All grades of Commercial Fertilizers

Superphosphate

Sulphuric Acid

Insecticides and Fungicides

Phosphoric Acid and Phosphates

Phosphorus and Compounds of Phosphorus

Fluosilicates

Salt Cake

Gelatin

Bone Products

Ammonium Carbonate

The AMERICAN AGRICULTURAL CHEMICAL Co.

GENERAL OFFICE: 50 CHURCH STREET, NEW YORK 7, N.Y.

30 FACTORIES AND SALES OFFICES, SERVING U. S., CANADA AND CUBA—ASSURE DEPENDABLE SERVICE

ALABAMA—**Auburn—**

Alabama Polytechnic Institute, School of Agriculture and Agricultural Experiment Station. E. V. Smith, Director, C. F. Simmons, Assoc. Director, Coyt Wilson, Asst. Dir.

Tuskegee Institute—

Tuskegee Institute Agricultural Research and Experiment Station, Tuskegee Institute, Alabama; E. V. Smith Dean & Director.

Substations:**Belle Mina—**

Tennessee Valley Substation — Fred Stewart, B. S. Supt. J. K. Boseck, B. S. Asst. Supt. W. R. Williams, B. S. Asst. Supt.

Camden—

Lower Coastal Plain Substation— Lavern Brown, B. S. Supt. W. M. Arrington, B. S., Asst. Supt.

Camp Hill—

Piedmont Substation E. L. Mayton, M. S. Supt. C. J. Jacobs, B. S., Asst. Supt.

Clanton—

Chilton Area Horticulture Substation. C. C. Carlton, B. S. Supt.

Crossville—

Sand Mountain Substation. S. F. Gissendaner, B. S. Supt. M. W. Alison, B. S., Asst. Supt.

Cullman—

North Alabama Horticulture Substation. T. S. Morrow, B. S. Supt.

Fairhope—

Gulf Coast Substation. Otto Brown, M. S. Supt. H. F. Yates, B. S. Asst. Supt. J. E. Barrett, B. S., Asst. Supt.

Headland—

Wiregrass Substation. C. A. Brodgen, B. S. Supt. J. G. Starling, Asst. Supt., Max Sconyers, Asst. Supt.

Marion Junction—

Black Belt Substation. W. B. Kelley, Supt. L. A. Smith, B. S. Asst. Supt.

Winfield—

Upper Coastal Plain Substation. W. W. Cotney, B. S. Supt. F. D. Robinson, B. S. Asst. Supt.

ALASKA—**College—**

University of Alaska, Allan H. Mick, Dean School of Agriculture, Director Extension Service—Lynn O. Hollist, Associate Director. Alaska Agricultural Experiment Station, John E. Osguthorpe, Superintendent.

Palmer—

Alaska Agricultural Experiment Station. Don L. Irwin, Director, Emil G. Ganschow, Adm. officer.

Petersburg—

Petersburg Experiment Fur Sta-

AGRICULTURAL EXPERIMENT STATIONS

**Listing by States Experiment Stations, Sub-Stations, and locations:
names of AES directors and sub-station Superintendents.**

tion, James R. Leekley, Biologist-in-charge.

ARIZONA—**Mesa—**

Salt River Valley Experiment Farm. D. C. Aepli, Supt.

Safford—

The Safford Experiment Farm, The University of Arizona. Phil S. Eckert, Dean of the College of Agriculture of the University and Director of Experiment Stations. A. M. Bliss, Supt.

Tucson—

University of Arizona. College of Agric. and Agricultural Experiment Station. Phil S. Eckert, Dean and Director. R. S. Hawkins, Vice Dean and Vice Director. David C. Aepli, Gen. Supt. All stations. A. Mark Bliss, Supt., Safford Station. R. H. Hilgeman, Supt. Tempe Citrus Station. C. W. VanHorn, Supt. Tuma Station. E. H. Hussman, Supt. Tucson Station.

Yuma—

Yuma Valley and Mesa Farms. C. W. Van Horn, Supt.

ARKANSAS—**Fayetteville—**

University of Arkansas, College of Agriculture and Agric. Experiment Station. Lippert S. Ellis, Dean and Director. College of Agriculture, Dr. John W. White Assoc. Director, Agricultural Experiment Station. Gerald T. Hudson, Asst. Dean. C. A. Vines, Assoc. Dir. Agricultural Extension Service.

Branch Stations:**Bald Knob—**

Arthur McDaniels, Jr., Horticulturist in Charge Strawberry Substation.

Batesville—

Livestock and Forestry Branch Experiment Station, Charles E. Mabry, Asst. Dir. in charge.

Clarksville—

Cole Westbrook, Jr., Horticulturist in Charge Arkansas Valley Peach Substation.

Hope—

Fruit & Truck Branch Experiment Station. C. M. Bittle, Asst. Dir. in charge.

Marianna—

Cotton Branch Experiment Sta-

tion. J. L. Dameron, Asst. Dir. in charge.

Nashville—

Eugene H. Arrington, Jr., Horticulturist in Charge, Nashville Peach Substation.

Stuttgart—

Rice Branch Experiment Station. Francis Williams, Asst. Dir. in charge.

Van Buren—

Henry H. Vose, Jr., Horticulturist in Charge Arkansas Valley Vegetable Substation.

CALIFORNIA—**Berkeley—**

University of California. College of Agriculture and Experiment Station; P. F. Sharp, Dir. Exp. Station; Knowles A. Ryerson, is Dean of College of Agriculture on Berkeley Campus, and Asst. Exper. station Director at Berkeley. H. G. Wellman, Vice Pres. Agricultural Sciences; J. E. Coke, Director Agr. Ext. Service. On leave as U. S. D. A. Asst. Secty. of Agric. Washington, D. C. under Ezra Benson; Wayne F. Weeks, Acting Dir. Agric. Ext. Service.

Davis—

University of California. College of Agriculture. B. A. Madison, Dir. of Field Stations; F. N. Briggs, Dean of College of Agric., Davis Campus, and Asst. Exper. Sta. Dir. At Davis.

Los Angeles—

Robert W. Hodgson, Dean of College of Agric., Los Angeles Campus & Asst. Exper. Station Dir. at Los Angeles.

Riverside—

Alfred M. Boyce, Dir. Citrus Exper. Station and Asst. Dir. of the Agric. Exper. Station, University of Calif. at Riverside.

Field Stations:**El Centro—**

Imperial Valley Field Station. N. R. Ittner, in charge.

Hopland—

Range Management Field Station. Alfred Murphy, in charge.

Lancaster—

Antelope Valley Field Station. R. L. Forsyth, in charge.

San Jose—

Deciduous Fruit Field Station. B. A. Rudolph, in charge.

Tulelake—

Tulelake Field Station. B. J. Hoyle, in charge.

COLORADO—**Ft. Collins—**

Colorado Agricultural & Mechanical College and Agric. Experiment Station. S. S. Wheeler, Director.

Branch Stations:**Akron—**

U. S. Akron Field Station, Branch Stations.

Eastern Colo. Range, Akron, Colo., Wm. S. Burns, Ranch Foreman.

Austin—

Western Slope Branch Station. Ferris M. Green, Supt.

Center—

San Luis Valley Branch Station. Verne Cooper, Supt.

Grand Junction—

Colorado Agricultural Experiment Station. Forrest M. Willhite, in charge of Mountain meadow work.

Hesperus—

San Juan Basin Branch Station. H. O. Mann, in charge of Crops & Fertilizer Research & Kent Ridgle Asst. Animal Husbandman.

Rocky Ford—

Arkansas Valley Branch Station. Herman Fauber, Supt.

CONNECTICUT—**New Haven—**

The Connecticut Agricultural Experiment Station. P. O. Box 1106. J. G. Horsfall, Director. Neely Turner Asst. Dir. Tobacco Laboratory, Windsor. W. L. Slate, in charge.

Danielson—Branches—

The Plant Pest Control Division P. O. Box 325, Oscar B. Cooke, Deputy Entomologist.

Windsor—

Tobacco Laboratory, P. O. Box 348. W. L. Slate, Acting Chief.

Storrs—

University of Connecticut. W. B. Young, Dean College of Agriculture. Dir. Station. A. A. Spielman, Assoc. Dir. of Exp. Station. Dir. of Agr. Extension. R. G. Hepburn. Assoc. Dir. of Agr. Extension.

DELAWARE—**Dover—**

Delaware State College. J. C. Finney, Dean.

Newark—

University of Delaware. School of Agriculture, Agricultural Experiment Station, and the Agricultural

Extension Service. George L. Schuster, Dean School of Agriculture. G. W. Worriow, Director Experiment Station and Extension Service. G. Fred Somers, Assoc. Dir. Exp. Station.

Substation—Georgetown—

Prof. E. F. Waller, in charge Poultry, Newark.

Georgetown, Prof. E. P. Brosher, in charge of Horticulture, Newark. Prof. C. E. Phillips, in charge Agronomy, Newark. E. F. Turner, Farm Mgr., Georgetown.

FLORIDA—**Gainesville—**

University of Florida. College of Agriculture, Agricultural Experiment Station and Agricultural Extension Service. Willard M. Field, Director. Agric. Experiment Station; Dr. J. R. Beckenbach, Assoc. Dir.; Dr. L. O. Gratz, Asst. Dir. H. G. Clayton, Dir. Agricultural Extension Service; M. O. Watkins, Asst. Dir.

Branch Stations:**Belle Glade—**

Everglades Experiment Station. Dr. W. T. Forsee, Jr., Chemist in charge.

Bradenton—

Gulf Coast Experiment Station. Dr. E. L. Spencer, Ph. D. Soils Chemist in charge.

Brooksville—

West Central Fla. Station. Marian W. Hazen, Animal Husbandman, acting in charge (cooperation with BAI, USDA) William Jackson, B. S. A. Animal Husbandman in Charge.

Homestead—

Sub-Tropical Experiment Station, Homestead. Dr. Geo. D. Ruehle, Vice-Director in charge.

Jay—

West Fla. Experiment Station. C. E. Hutton, Ph. D. Vice Dir. in Charge.

Lake Alfred—

Citrus Experiment Station. A. F. Camp, Ph.D. Vice Director in Charge.

Live Oak—

Suwannee Valley Experiment Station. G. E. Ritchey, M. S. Agronomist in Charge.

Ona—

Range Cattle Experiment Station. W. G. Kirk, Ph.D. Vice Director in Charge.

Quincy—

North Florida Experiment Station, W. C. Rhoades, Entomologist in Charge.

Sanford—

Central Florida Experiment Station. R. W. Ruprecht, Vice Dir. in Charge.

GEORGIA—**Athens—**

University of Georgia College of Agriculture. C. C. Murray, Dean and Director. Paul W. Chapman, Assoc. Dean of Resident Instruction. Geo. H. King, Assoc. Dir. of Exp. Station. W. S. Brown, Asst. Dir. of Agric. Extension. E. B. Browne, Resident Dir. College Station.

Blairsville—

Georgia Mountain Experiment Station. J. E. Bailey, Supt.

Calhoun—

Dean D. Hayes, Supt. North West Ga. Branch Station.

Experiment—

Georgia Experiment Station. F. F. Cowart, Res. Director.

Midville—

C. H. Barker, Supt. South East Ga. Branch Experiment Station.

Plains—

N. D. McRainey, Supt. South West Ga. Branch Experiment Station.

Tifton—Georgia Coastal Plain Experiment Station—

Frank P. King, Resident Director

IDAHO—**Moscow—**

University of Idaho. College of Agriculture & Agricultural Experiment Station. D. R. Theophilus, Dean of the College of Agriculture. Dir. of Agric Experiment Station and Dir. of Extension Service. J. E. Kraus, Asso. Dir. Agric. Experiment Sta. C. O. Youngstrom, Assoc. Dir. Extension Div. Address, State House, Boise.

Aberdeen—

Branch Experiment Stations. R. D. Ensign, Supt.

Caldwell—

Caldwell Branch Exp. Station. R. F. Johnson, Supt.

Kimberly—

Twin Falls Branch Experiment Station. Marshall LeBaron, Supt.

Parma—

Parma Branch Experiment Station. D. F. Franklin, Supt.

Sandpoint—

Sandpoint Branch Experiment Station. C. T. Brackney, Supt.

Tetonia—

Tetonia Branch Experiment Station. Address, Box 72, St. Anthony, Idaho. Hugh C. McKay, Supt.

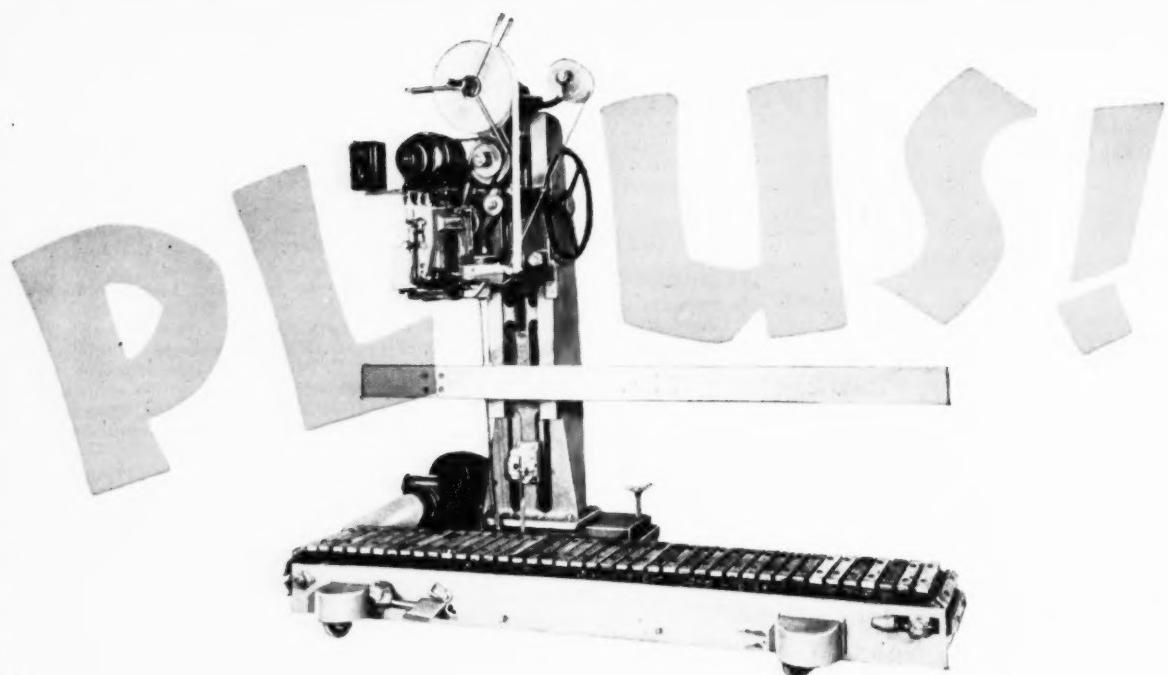
Twin Falls—

Marshall J. LeBaron, Supt. Branch Experiment Station.

ILLINOIS—**Urbana—**

University of Illinois. College of Agriculture, Agricultural Experiment Station and Extension Serv-

The Bag Closing Machine With a Real



There's an extra PLUS built into every model ET BAGPAKER delivered... the PLUS of assured day-in, day-out top performance.

The Model ET ties in with your existing filling and weighing equipment...closes open-mouth, multiwall paper bags semi-automatically... gives you sift-free, stronger, more economical bag closures with the famous BAGPAK cushion stitch.

You can count on the model ET BAGPAKER to give you faster packaging and better product protection...at lower cost.



Model ET applies famous "Cushion Stitch" over dry tape for sift-proof closure. Model E-1 applies "Cushion Stitch" only, for use where sift-proofing is not essential.



International Paper

COMPANY

BAGPAK DIVISION

BRANCH OFFICES: Atlanta • Baltimore • Baxter Springs,
Kansas • Boston • Chicago • Cleveland • Denver
Detroit • Kansas City, Kansas • Los Angeles • Minneapolis
New Orleans • Philadelphia • Pittsburgh • St. Louis • San
Francisco • Wooster, O. • In Canada: The Continental
Paper Products, Ltd., Montreal, Ottawa, Toronto.

Check these Economy and Efficiency Features:

- + Closes 15 filled bags a minute.
- + Fast adjustment to bags from 25 to 100 lbs.
- + Completely portable—rolls to any packaging station.
- + Bag starts and stops serving head when equipped with automatic control.
- + Hoepner No. 150 Heavy Duty Sewing Head with automatic brake to prevent "coasting".

Bagpackers available include models A, D-A, ET, E-I and F-I—with capacities from 60 tons per hour for the Model "A" to the small F-I where large volume is not required.

Write today for details, drawings and capacities to Bagpak Division, International Paper Co., 220 E. 42nd St., N.Y. 17, N.Y., Dept. C-14

ice in Agriculture & Home Economics. Robert R. Hudelson, Dean and Director, G. D. Smith, Asst. Dean, L. B. Howard, Assoc. Dir. Experiment Station, W. G. Kammlade, Assoc. Dir. Extension Service.

Dixon Springs—Robbs, Branch Station—
R. J. Webb, Supt.

INDIANA—

La Fayette—

Purdue University, School of Agriculture, Agricultural Experiment Station and Agricultural Extension Service. H. J. Reed, Director Agricultural Experiment Station and Agricultural Extension Service and Dean, School of Agriculture. N. J. Volk, Associate Director Agri. Exp. Station, L. E. Hoffman, Assoc. Dir. Agricultural Extension Service. V. C. Freeman, Assoc. Dean, School of Agriculture.

Bedford—

Moses Fell Annex Farm, Hobart G. Hall, Supt.

Carmel—

Lynwood Farm, C. H. Nichel, Supt.

Cuivre—

Sand Experimental Farm. J. B. Peterson, Head of Dept. of Agronomy.

Farmland—

Herbert Davis Forestry Farm, I. A. Pickard, Foreman.

Johnson—

Southwestern Indiana Horticultural Experimental Farm. N. K. Ellis, Head of the Dept. of Horticulture.

North Liberty—

Muck Soil Experimental Farm. N. K. Ellis, Head of the Dept. of Horticulture.

North Vernon

Jennings County Experimental Field, J. B. Peterson, Head of Dept. of Agronomy.

Orleans—

Entomological Experimental Orchard, G. E. Marshall, in Charge.

Romney—

Edmund Throckmorton Memorial Farm, Evan R. Baugh, Supt.

Upland—

Miller-Purdue Farm, R. E. Smith, Supt.

Wauhatchie—

Pinney-Purdue Farm, M. A. Mohler, Supt.

IOWA—

Ames—

Iowa State College of Agriculture & Mechanical Arts, Agricultural Experiment Station and Extension Service, Floyd Andre, Dean Div. of Agriculture of Sta., Dir. of Ext. Service. G. M. Browning, Assoc.

Dir. Agricultural Exp. Sta., R. K. Frevert, Asst. Dir. Agricultural Experiment Sta. Marvin Anderson, Assoc. Dir. of Ext. Service.

Albia—

Albia Pasture Experimental Farm, J. M. Scholl, (Ames)

Beaconsfield—

Shelby - Grundy Experimental Farm, Kenneth Driftmeir.

Bloomfield—

Southern Iowa Experimental Farm, R. P. Nicholson, (Ames)

Castana—

Western Iowa Experimental Farm, Bob Zimmerman.

Conesville—

Southeastern Iowa Experimental Farm, Faye Kent.

Corydon—

Seymour - Shelby Experimental Farm, R. P. Nicholson, (Ames)

Council Bluffs—

Bluffs Experimental Farm, C. C. Doll.

Fruitland—

Muscatine Island Experimental Farm, Lewis Peterson.

Hopkinton—

Brayton Memorial Forest. A. L. McComb, in charge.

Independence—

Carrington - Clyde Experimental Farm, H. R. Meldrum (Ames)

Kanawha—

Clarion-Webster Experimental Farm. W. D. Shrader in charge. Northern Iowa Experimental Assn. A. A. Kent, Mgr.

Saratoga—

Howard County Experimental Farm, S. J. Angstrom.

Shenandoah—

Soil Conservation Experiment Farm, L. S. Cutter.

KANSAS—

Manhattan—

Kansas State School of Agriculture and Applied Science: Arthur D. Weber, Dean, School of Agriculture and Director, Agric. Exper. Station; Harold E. Myers, Assoc. Director, C. Peairs Wilson, Asst. Dir. Agric. Exper. Station, L. C. Williams, Dean and Director, and Paul W. Griffith, Assoc. Dean and Director, Division of Extension.

Branch Stations:

Colby—

Branch Station, E. H. Coles, Supt.

Garden City—

Experiment Station, A. B. Erhart, Supt.

Hays—

Ft. Hays Branch Experiment Station, W. W. Duitsman, Supt.

Mound Valley—

Mound Valley Branch Experiment Station, Floyd E. Davidson, Supt.

Tribune—

Tribune Experiment Station, T. B. Stinson, Supt.

KENTUCKY—

Lexington—

University of Kentucky, College of Agriculture and Home Economics, Agricultural Exp. Station and Agriculture Extension Service, Frank J. Welch, Dean of College, Dir. of Exp. Station and Extension Service; L. J. Horlacher, Assoc. Dean, College of Agr. and Home Ecs.; W. P. Garrigus, Assoc. Dir. of Exp. Sta.; T. R. Bryant, Assoc. Dir. Extension.

Princeton—

Western Ky. Substation, S. J. Lowry, Supt.

Quicksand—

Robinson Agricultural Experiment Substation, Roger W. Jones, Supt.

LOUISIANA—

Baton Rouge 3—

Louisiana State University, Agricultural Experiment Station, W. G. Taggart, Director; I. L. Forbes, Asst. Director.

Substations:

Bossier City—

Red River Valley Station—J. Y. Oakes, Supt.

Calhoun—

north La. Station, Calhoun—R. S. Woodward, Supt.

Crowley—

Rice Experiment Station, Rufus K. Walker, Supt.

De Ridder—

West La. Experiment Station, C. B. Roark, Supt.

Diamond—

Plaquenines Parish Station, R. T. Brown, Supt.

Hammond

Fruit & Truck Station, W. F. Wilson, Jr., Supt.

Homer—

North La. Hill Farm Experiment Station, D. M. Jones, Supt.

St. Joseph—

Northeast La. Station, C. B. Haddon, Supt.

Southeast—

Southeast La. Station, H. DeWitt Ellzey, Jr., Supt.

MAINE—

Orono—

University of Maine, College of Agriculture and Agricultural Experiment Station. A. L. Deering, Dean of Agriculture, G. F. Dow, Assoc. Dir. of Experiment Station, G. E. Lord, Assoc. Dir. of Extension Service, W. C. Libby, Assoc. Dean, College of Agriculture.

MARYLAND—
College Park—

University of Maryland, College of Agriculture & Agricultural Experiment Station. I. C. Haut, Director; J. M. Gwin, Dir. Extension Service.

MASSACHUSETTS—

Amherst—

University of Massachusetts, School of Agriculture and Agric. Experiment Station. Dale H. Sieling, Dean and Director; J. W. Dayton, Assoc. Dean & Dir. Extension Service Head.

East Wareham—

Cranberry Experiment Station. C. E. Cross, in charge.

Waltham—

Waltham Field Station. Ray M. Koon, in charge.

MICHIGAN—

East Lansing—

Michigan State College of Agriculture and Agricultural Experiment Station. C. M. Hardin, Dean of Agriculture; L. M. Turk, Asst. Dean and Director; and Director Experiment Station D. B. Varner, Asst. Dean and Dir. Ext. Service.

Augusta—

W. K. Kellogg Station, C. M. McCrary, Supt.

Chatham—

Upper Peninsula Experiment Station, R. E. Horwood, Supt.

Grand Rapids—

Graham Hort. Experiment Station, 2989 Lake Michigan Drive, W. Walter Toenjes, Supt.

Lake City—

Lake City Experiment Station, A. M. Berridge, Supt.

Sault Ste. Marie—

Dunbar Forest Experiment Station, M. W. Day, Supt.

South Haven—

South Haven Hort. Experiment Station, Stanley Johnston, Supt.

MINNESOTA—

St. Paul—

University of Minnesota, Institute of Agriculture, Harold Macy, Dean, T. H. Fenske, Asst. Dean, H. J. Sloan, Dir. of Agricultural Experiment Station, C. O. Rost, Head Dept. of Soils, Paul E. Miller, Dir. Extension Service, Skuli Rutford, Assoc. Dir. Extension Service.

Branches—

Cloquet—

Forestry Station, T. Schantz-Hansen, in Charge.

Castle Danger—

Potato Breeding Farm, F. A. Krantz, in Charge.

Crookston—

Northwest Experiment Station, T.

M. McCall, Superintendent, O. C. Soine, Agronomy and Soils.

Duluth—

Northeast Experiment Station, M. J. Thompson, Superintendent.

Excelsior—

Fruit Breeding Farm, T. S. Weir, Asst. Supt.

Grand Rapids—

North Central Experiment Station, C. L. Cole, Supt. C. H. Griffith, Agronomy and Soils.

Morris—

West Central Experiment Station, Allen W. Edson, Superintendent, R. O. Bridgford, Agronomy & Soils.

Rosemount

Agricultural Experiment Station Branch, A. C. Heine, Supt.

Waseca—

Southeast Experiment Station, Waseca; R. E. Hodgson, Supt.

MISSISSIPPI—

State College—

Mississippi Agricultural Experiment Station, Clay Lyle, Dean and Dir. Div. of Agriculture, Henry H. Leveck, Assoc. Dir., Mose S. Shaw, Assoc. Dir. Extension Service.

Branch Stations:

Brooksville—

Black Belt Branch Station, Louie Walton, Supt.

Crystal Springs—

Truck Crops Branch Station, John A. Campbell, Supt.

Holly Springs—

S. P. Crockett, Superintendent, North Miss. Branch Experiment Station.

Natchez—

Natchez Branch Station Frank O. Pevey, Supt.

Newton—

Coastal Plain Branch Station, Roy Kuykendall, Supt.

Poplarville—

South Mississippi Branch Experiment Station, Poplarville; T. E. Ashley, Superintendent.

Pontotoc—

Pontotoc Ridge-Flatwood Branch Exp. Station, B. C. Hurt, Supt.

Raymond—

Brown Loam Branch Station, John B. Gill, Supt., Robt. E. Coats, Agronomist.

Stoneville—

Delta Branch Station, Wm. L. Giles, Supt.

Verona—

Northeast Miss. Branch Station, R. C. Albritton, Supt.

West Point—

West Point Pilot Farm, P. J. Vickers, Supt.

MISSOURI—
Columbia—

University of Missouri, College of Agriculture & Experiment Station, J. H. Longwell, Director Division of Agricultural Science, Dean of the College of Agriculture and Director of Agriculture Experiment Station, in Charge of Fertilizer Control.

Hannibal—

Hatch Dairy Farm.

MONTANA—

Bozeman—

Montana State College, M. A. Bell, Acting Director, Agricultural Experiment Station, H. G. Cockrum, Acting Dean of Agriculture.

Branch Stations:

Corvallis—

Hort. Branch Station, A. L. Richardson, Supt.

Creston—

Northwestern Mont. Branch Station, C. W. Roath, Supt.

Havre—

North Mont. Branch Station, J. J. Sturm, Supt.

Huntley—

Huntley Branch Station, T. S. Aashiem, Supt.

Miles City—

U. S. Range Livestock Experiment Station, J. R. Quesenberry, Supt.

Moccasin—

Central Montana Branch Station, R. M. Williams, Agron. & Supt.

Sidney—

Eastern Mont. Branch Station, G. P. Hartman, Supt.

NEBRASKA—

Lincoln—

University of Nebraska; College of Agriculture, Agricultural Experiment Station, and Agric. Extension Service. W. V. Lambert, Dean and Director; M. L. Baker, Assoc. Director of Experiment Station. E. W. Janike, Assoc. Dir. of Extension Service.

Branch Stations:

Alliance—

Box Butte Experiment Farm, Robert O'Keefe, Supervisor.

Crawford—

Ft. Robinson Beef Cattle Research Station, R. L. Davis, Supt.

Mitchell—

Scotts Bluff Experiment Station Lionel Harris, Supt.

North Platte—

North Platte Experiment Station James C. Adams Superintendent.

NEVADA—

Reno—

University of Nevada, College of Agriculture and Agricultural Experiment Station, C. B. Hutchison,

Farmers depend on ARMOUR FERTILIZERS



**ARMOUR
FERTILIZER
WORKS**
General Office
P.O. Box 1685
Atlanta 1, Georgia



For more than 50 years Armour fertilizers have been "making every acre do its best". Farmers know that Armour's highest-quality fertilizers are made right and cured right to give best results with all crops.

Every bag of fertilizer sold by Armour is backed by years of painstaking scientific research in the fields of chemistry and farming. Testimonials from every section of the country—on all types of crops—prove that Armour fertilizers make increased yields of better quality crops that bring higher profits.

29 FACTORIES CONVENIENTLY LOCATED TO SERVE YOU

Albany, Ga.
Atlanta, Ga.
Augusta, Ga.
Baltimore, Md.
Bartow, Fla.
Birmingham, Ala.
Carteret, N.J.
Chicago Heights, Ill.
Cincinnati, Ohio
Columbia, S.C.
Columbus, Ga.
Dallas, Texas
E. St. Louis, Mo.
Greensboro, N.C.
Houston, Texas
Jacksonville, Fla.
Jeffersonville, Ind.
Montgomery, Ala.
N. Kansas City, Mo.
Nashville, Tenn.
New Orleans, La.
Norfolk, Va.
Presque Isle, Me.
Sandusky, Ohio
Siglo, Tenn.
Wilmington, N.C.
Winona, Minn.

Also sales offices in Havana,
Cuba, and San Juan, Puerto Rico

Contact—
Dean of the College of Agric., C. E. Fleming, Assoc. Director Agric. Exp. Sta., Paul Maloney, Assoc. Dir. of Agriculture Ext. Service.

Fallon—
Knoll Creek Field Station, Thomas W. Cook, Supt.

Fallon—
Newlands Field Station; John A. McCormick, Supt. Fallon.

NEW HAMPSHIRE— Durham—

University of New Hampshire, College of Agriculture and Agric. Experiment Station, H. C. Grinnell, Director, M. C. Richards, Assoc. Dir., L. A. Bevan, Dir. Agric. Ext. Service, S. W. Hoitt, Assoc. Dir.

**NEW JERSEY—
New Brunswick—**
The State University of New Jersey State College of Agriculture and Agricultural Experiment Station, William H. Martin, Dean and Director of Agricultural Experiment Station & Director of Ext. Service, Lindley G. Cook, Assoc. Extension Dir.

Sub Stations:

Bivalve—
Oyster Research Laboratory, Harold H. Haskin.

Millville—
Turkey Research Farm, Jno. J. Dowling.

Pemberton—
Cranberry and Blueberry Research Laboratory, C. A. Doehlert.

Sussex—
Dairy Research Farm, Claude Eby.

Vineland—
Poultry Pathology Lab., Landis & Brewster.

NEW MEXICO— State College—

New Mexico College of Agriculture & Agricultural Experiment Station, R. A. Nichols, Dean and Director, Albert S. Curry, Assoc. Dir., H. L. Hildwein, Assoc. Director of Ext. Service, P. W. Cockrell, Asst. Dean Div. Instruction, State College.

Sub Stations:
Alcalde—
Espanola Valley Substation, Philip M. Trujillo, Supt.

Albuquerque—
Middle Rio Grande Substation, H. D. Jones, Supt., Route 3, Box 3460.

Clovis—
Plains Substation, Star Route, John Carter, Supt.

Tucumcari—
Northeastern Substation, D. H. Williams, Supt.

NEW YORK—

Ithaca—
Cornell University, College of Agriculture & Agricultural Experiment Station, C. E. F. Guterman, Director of Res. & Dir. Station, A. W. Gibson, Dir. of Res. Instruc., L. R. Simons, Dir. Ext. Service.

Geneva—
New York State Agricultural Experiment Station, A. J. Heinicke, Director.

Sub Stations:
Riverhead, Long Island—
Long Island Vegetable Research Farm, S. L. Dallyn, in Charge.

Farmingdale—
The Long Island Ornamentals Research Laboratory, Arthur Bing, in Charge.

**NORTH CAROLINA—
Raleigh—**
University of North Carolina, College of Agriculture and Agricultural Experiment Station, R. W. Cummings, Director of Research, D. S. Weaver, Dir. Ext. Service.

Branch Stations:	Sub Stations:
Apex— McCullers Experiment Station, W. C. Allsbrook, Asst. Dir. in Charge.	Casselton— Agronomy Seed Farm, Mark Jendro, Mgr.
Faison— Coastal Plain Vegetable Research Farm, Box 247, Albert A. Banadyga, in Charge.	Dickinson— Dickinson Agricultural Experiment Station, Raymond J. Douglas, Supt.
Greenville— Lower Coastal Plain Tobacco Research Farm, C. W. Suggs, Supervisor.	Edgeley— Edgeley Sub-Experiment Station, Miles C. White, Supt.
Hendersonville— N. C. Agricultural Exp. Station, Mountain Fruit and Vegetable Station, Harold D. Taylor, Supt.	Hettinger— Hettinger Sub-Experiment Station, Leslie O. Williamson, Supt.
Jackson Springs— Peach Research Laboratory, Clarence Black, in Charge.	Langdon— Langdon Sub-Experiment Station, Victor Sturlaugson, Supt.
Laurel Springs— Upper Mountain Branch Station, Dana F. Tugman, Asst. Dir. in Charge.	Minot— North Central Agr. Exp. Sta., G. N. Geiszler, Supt.
McCullers— McCullers Branch Station, W. C. Allsbrook, Asst. Dir. in Charge.	Williston— Williston Experimental Substations (Dryland & Irrigation), Howard M. Olson, Supt.
Oxford— Tobacco Branch Station, J. M. Carr, Asst. Dir. in Charge.	OHIO—
Plymouth— Tidewater Branch Station, J. L. Rea, Sr., Asst. Dir. in Charge.	Columbus— Ohio State University, College of Agriculture, L. L. Rummell, Dean College of Agriculture, W. B. Wood, Dir. Agr. Extension.
Rocky Mount— Upper Coastal Plain Branch Station, W. H. Bailey, Asst. Dir. in Charge.	Wooster— Ohio Agricultural Experiment Station, L. L. Rummell, Director; W. E. Krauss, Assoc. Director.
Rural Hall— Upper Piedmont Tobacco Research Farm, George Hawkins, in Charge.	Branch Stations:
Statesville— Upper Piedmont Branch Station, J. W. Hendricks, Asst. Director, in Charge.	Canfield— Mahoning County Experiment Farm, Cecil Edwards, Mgr.
Waynesville— Mountain Branch Station, M. R. Whisenhunt, Asst. Director in Charge.	Carpenter— Southeastern Sub-Station, Ohio Agricultural Experiment Station, Jno. P. Hamill, Farm Supt.
Whiteville— Border Belt Tobacco Research Farm, J. W. Dickens, Supervisor.	Cincinnati— Hamilton Co. Exp. Farm, R. R. 2-Box 75, W. L. Jones, Mgr.
Willard— Lower Coastal Plain Branch Station, J. W. Sumner, Asst. Dir. in Charge.	Cortland— Trumbull County Experiment Farm, James H. Foster, Mgr.
Wilmington— Vegetable Research Laboratory, J. M. Jenkins, Jr., in Charge.	Hoyleville— Northwestern Substation, H. B. Haskins, Mgr.
NORTH DAKOTA—	London— Madison County Experiment Farm, H. W. Rogers, Mgr.
Fargo— State College Station, College of Agriculture and Agricultural Experiment Station, H. L. Walster, Dean, School of Agriculture and Director, Agricultural Experiment Station, Arlon G. Hazen, Asst. to the Director, E. J. Haslerud, Dir. Agr. Extension Service.	Marietta— Vegetable Crops Substation, H. M. Racer, Mgr.
	St. Clairsville— Belmont County Experiment Farm, H. R. McMahon, Mgr. H. Postema, Mgr.
	Willard— Muck Corps Experiment Farm, E.
	OKLAHOMA—
	Stillwater— Oklahoma Agricultural College and Agricultural Experiment Sta-

THE EQUITABLE STORY...



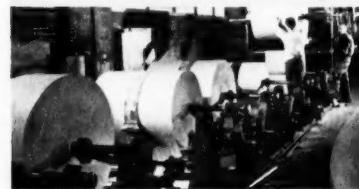
SERVICE — Modern facilities and years of experience permit prompt, personal attention . . . including a skilled research staff to assist in the custom design of bags suited to *your* needs.



ECONOMY — Equitable's streamlined paper mills assure you the lowest possible costs . . . extensive facilities responsible for such famed developments as "Aquatite," the rugged wet-strength Kraft.



QUALITY — Rigid laboratory control... from papermaking to printed multi-walls... guarantees top quality. Glues, inks, paper and performance are under constant scrutiny by skilled technicians.



DEPENDABILITY — Ever-expanding facilities and comprehensive staff training programs contribute to making Equitable's product outstanding in this field . . . for quality . . . uniformity . . . dependability!



GROWTH IS NO ACCIDENT

A bumper crop starts with good seed and soil . . . ample patience, skill and toil . . . and above all the vision to fortify and perpetuate nature's bounty.

Many of these same ingredients lie behind the development of the multiwall bags that move your farm chemicals to the farmer. The extra effort Equitable puts into its work has largely contributed to its growth in this market.



Equitable
PAPER BAG COMPANY ■

45-50 VAN DAM STREET, LONG ISLAND CITY 1, N. Y.
PAPER MILLS AND SOUTHERN BAG PLANT: ORANGE, TEXAS

Extension Service, F. E. Price, Dir.
F. L. Ballard, Assoc. Dir.

Branch Stations:

Astoria—

John Jacob Astor Branch Station,
Rt. 1, Box 921, H. B. Howell, Su-
perintendent, W. E. Dent, Asst.
Supt.

Burns—

Squaw Butte-Harney Experiment
Station, P. O. Box 833, W. A. Saw-
yer, Superintendent.

Hermiston—

Umatilla Branch Experiment Sta-
tion, Box 965, C. A. Larson, Supt.

Hood River—

Mid-Columbia Branch Experiment
Station P. O. Box 89, W. M. Mel-
lenthin, Supt.

Klamath Falls—

Klamath Experiment Area, Box
448, A. E. Gross, Supt., A. R.
Halvorson, Asst. Supt.

Medford—

Southern Oregon Branch Experi-
ment Station, P. O. Box 426, Dr.
E. S. Degman, Supt.

Milton-Freewater—

Milton - Freewater Experimental
Area, C. A. Larson, Umatilla Br.

Exp. Sta. Supt. P. O. Box 965,
Hermiston.

Moro—

Sherman Branch Experiment Sta-
tion, G. A. Mitchell, Supt.

Ontario—

Malheur Experimental Area, Rt.
1, Box 238, E. N. Hoffman, Supt.

Oregon City—

Red Hill Soils Experiment Area.
J. T. McDermid, Supt.

Pendleton—

Pendleton Branch Experiment
Station, Box 816, M. M. Oveson,
Supt.

Portland—

W. T. White, Regional Chief Land
Management, Soil Conservation
Service, 209 S. W. 5th, Portland.

Redmond—

Central Oregon Experiment Pro-
ject, Box 1215, M. J. Johnson, Area
Supt.

Union—

Eastern Oregon Livestock Br. Ex-
periment Station: H. G. Avery,
Superintendent.

PENNSYLVANIA—

State College—

The Pennsylvania State College,
School of Agriculture & Agricul-
tural Experiment Station, L. E.
Jackson, Dean School of Agricul-
ture; M. A. Farrell, Associate Dean
& Dir. of Station, H. R. Albrecht,
Associate Dean & Dir of Agricul-
tural Extension, R. B. Dickerson,
Assoc. Dean & Dir. of Resident
Instruction.

PUERTO RICO—

Rio Piedras—

University of Puerto Rico, Agri-
cultural Experiment Station, Arturo
Roque, Director; B. G. Capo,
Associate Director for Research.
University of Puerto Rico Agricul-
tural Extension Service, R.
Huyke, Director; A. Perez, Vice-
Director.

Mayaguez—

University of Puerto Rico College
of Agriculture, L. Stefani, Vice-
Chancellor.

Branch Stations:

Adjuntas—

Coffee Agricultural Experiment
Substation and Seed Farm, A.
Rodriguez-Cabrera, Assistant
Agronomist in Charge.

Corozal—

Corozal Agricultural Experiment
Substation and Seed Farm, Hector
Gandia, Associate Agronomist in
Charge.

Isabela—

Isabela Agricultural Experiment
Substation, A. Riollano, Agrono-
mist in Charge.



DOLOMITIC LIMESTONE

GUARANTEED ANALYSIS

. . . 60% Calcium Carbonate
. . . 39% Magnesium Carbonate

WILLINGHAM-LITTLE STONE COMPANY

1201-4 Healey Bldg., Atlanta, Ga.

"39 Years Service to the Fertilizer Industry in the Southeast"

Isabela Seed Farm, M. Aviles,
Assistant Agronomist in Charge.

Lajas—

Lajas Agricultural Experiment Substation and Seed Farm, A. Gonzalez-Chapel, Assoc. Animal Husbandman in Charge.

Rio Piedras—

Tobacco Agricultural Experiment Substation and Seed Farm, A. Amy, Associate Agronomist in Charge.

RHODE ISLAND—

Kingston—

University of Rhode Island, College of Agriculture and Agricultural Experiment Station & Extension Service, Mason H. Campbell, Dean and Director; Everett P. Christopher, Vice-Dean of the College, Wm. H. Wiley, Assoc. Dir. of the Experiment Station; Prof. Homer O. Stuart, Dir. Extension Service.

SOUTH CAROLINA—

Clemson—

Clemson Agricultural College and Agricultural Experiment Station & Extension Service, H. P. Cooper, Dean School of Agriculture & Director; D. W. Watkins, Dir. Extension Service.

Sub Stations:

Blackville—

Edisto Experiment Station, W. B. Rogers, Superintendent.

Charleston—

Truck Experiment Station, P. O. Box 158, W. C. Barnes, Superintendent.

Columbia—

Sandhill Experiment Station, Route 3, J. A. Riley, Superintendent.

Florence—

Pee Dee Experiment Station, E. E. Hall, Superintendent.

Summerville—

Clemson Coast Experiment Station, E. D. Kyzer, Supt.

SOUTH DAKOTA—

Brookings—

South Dakota State College of Agriculture & Agricultural Experiment Station, I. B. Johnson, Director, G. I. Gilbertson, Dir. Extension Service.

Substations:

Buffalo—

Antelope Range Substation.

Cottonwood—

Range Field Station.

Eureka—

North Central Substation, Albert Dittman, Superintendent.

Hightmore—

Central Substation, Wade R. Pringle, Superintendent.

Newell—

U. S. Newell Field Station, Harry E. Weakly, Superintendent.

Presho—

Reed Ranch, Wayne Gloe, Supt.

TENNESSEE—

Knoxville—

University of Tennessee, College of Agriculture & Agricultural Experiment Station, J. H. McLeod, Dean College of Agri., Dir. of Sta., Dir. Extension; F. S. Chance, Vice Director of Sta., N. D. Peacock, Vice Dean, College of Agric.; Jno. A. Ewing, Asst. Dir., Experiment Station; R. W. Moore, Vice Dir. of Extension Service, E. C. McReynolds, Asst. Dir. of Extension Service.

Sub Stations:

Columbia—

Middle Tennessee Experiment Station, E. J. Chapman, Supt.

Crossville—

Plateau Experiment Station, John A. Odom, Supt.

Greeneville—

Tobacco Experiment Station, J. Hugh Felts, Supt.

Jackson—

West Tennessee Experiment Station, Ben P. Hazlewood, Supt.

Lewisburg—

Dairy Experiment Station, A. G. Van Horn, Supt.

Oak Ridge—

UT-AEC Agricultural Research Program, Dr. C. L. Comar, Lab. Director & Research Co-ordinator, J. Merrill Bird, Farm Supt.

Springfield—

Highland Rim Experiment Station, Lawson M. Safley, Supt.

TEXAS—

College Station—

Agricultural & Mechanical College of Texas, Agricultural Experiment Station and Extension Service, R. D. Lewis, Director; R. E. Patterson, Vice Director; G. G. Gibson, Dir., T. D. Prewit, Assoc. Dir. Extension Service.

Substations:

Angleton #3

James C. Smith, Supt.

Balmorhea—

John J. Bayles, Supt.

Beaumont, Route #4

Rice-Pasture Experiment Station, Route 5, Box 366, W. C. Davis, Supt.

Beeville—

Box 871, Robert A. Hall, Supt.

Chillicothe—

J. Roy Quinby, Supt.

Denton—

Route #1, Box 547, Daniel I. Dudley, Supt.

Gonzales—

James R. Reed, Jr., Supt.

Iowa Park—

Lester E. Brooks, Supt.

Kirbyville—

Chas. A. Burleson, Supt.

Lubbock, Route #8—

Donald L. Jones, Supt.

McGregor—

Box 567, Henry O. Hill, Supt.

Nacogdoches—

Howard C. Hutson, Supt.

Prairie View—

J. C. Williams, Supt.

Sonora—

Wm. T. Hardy, Acting Supt.

Stephenville—

Bryon C. Langley, Supt.

Spur—

#7, Texas Agri. Exp. Station, Charles E. Fisher, Supt.

Temple—

Richard M. Smith, Supt.

Tyler, Route #5—

Paul R. Johnson, Supt.

Weslaco #15, Box 537—

Walter R. Cowley, Supt.

Winter Haven—

Bruce A. Perry, Supt.

Ysleta, Route 1, Box 66—

Paul J. Lyerly, Supt.

UTAH—

Logan—

Utah State Agricultural College, Agricultural Experiment Station and Extension Service, R. H. Walker, Dean and Dir. Experiment Station, Carl Frischknecht, Dir. Agricultural Extension Service, D. A. Broadbent, Acting Dir. Experiment Station, Assist Dir.

VERMONT—

Burlington—

University of Vermont, College of Agriculture, Agricultural Experiment Station, J. E. Carrigan, Dean & Director of Agriculture, Director Extension Service; T. M. Adams, Acting Assoc. Dean & Director of Station and Extension Service.

Substations:

Middlebury—

J. E. Carrigan, Dir. Morgan Horse Farm, Lucien D. Paquette, Supt.

VIRGINIA—

Blacksburg—

Virginia Polytechnic Institute and Agricultural Experiment Station, H. N. Young, Director; L. B. Dietrick, Dir. Extension Service and Dean of Agriculture, W. H. Daughtry, Assoc. Dir.

Norfolk—

Virginia Truck Experiment Station, Wm. H. Brittingham, Dir. Eastern Shore Substation, Onley, Va., E. M. Dunton, Jr., in Charge.

Sub Stations:

Accomac—(P.O. Only)

Eastern Shore Branch, Va. Truck Experiment Station, L. T. Chandler, Supt.

Chatham—

Bright Tobacco Field Station, W. A. Jenkins, Plant Pathologist, E. M. Matthews, Assoc. Agronomist.

Charlotte Court House—

Southside Field Station, R. D. Sears, Supt.

Front Royal—

Beef Cattle Research Station, B. M. Priode, Supt.

Holland—

Tidewater Field Station, H. Marshall Clark, Supt.

Middleburg—

Northern Va. Pasture Research Station, W. L. Griffith, Supt.

Orange—

Piedmont Field Station, G. D. Jones, Supt.

Petersburg—

Va. State College Field Station, M. T. Carter, Supt.

Staunton—

Shenandoah Valley Field Station, P. T. Gish, Supt.

Warsaw—

Eastern Va. Field Station, H. M. Camper, Jr., Supt.

WEST VIRGINIA—

Morgantown—

West Virginia University, College of Agriculture Agricultural Experiment Station, H. R. Varney, Director on leave of absence from Feb. 1, 1953 to Feb. 1, 1954. A. H. VanLandingham, Acting Director Agricultural Experiment Station, Robert H. Black, Acting Asst. Director, Agricultural Experiment Station, J. O. Knapp, Dir. Agri. Extension Service.

Sub Stations:

Kearneysville—

University Experiment Farm, Edwin Gould, in Charge.

Point Pleasant—

Ohio Valley Substation, D. R. Browning in Charge.

Reedsville—

Reedsdale Experiment Farm, K. C. Westover in Charge. (P. O. Morgantown)

Wardensville—

Reymann Memorial Farms, C. J. Cunningham in Charge.

WASHINGTON—

Pullman—

State College of Washington, Institute of Agricultural Sciences, J. C. Knott, Dir., M. T. Buchanan, Dir. Agricultural Experiment Station. S. P. Swenson Dean, College of Agriculture, R. B. Tootell, Dir. Extension Service.

Lind—

Dry Land Experiment Station, Walter L. Nelson, Supt.

Long Beach—

Cranberry, Blueberry Experiment Station, D. J. Crowley, Supt.

Mount Vernon—

Northwestern Washington Experiment Station, Martin W. Carstens, Supt.

Prosser—

Irrigation Experiment Station, H. P. Singleton, Supt.

Puyallup—

Western Washington Experiment Station, D. F. Allmendinger, Supt.

Vancouver—

Southwestern Washington Experiment Station, R. M. Bullock, Supt.

Wenatchee—

Tree Fruit Experiment Station, Archie Van Doren, Supt.

WISCONSIN—

Madison—

University of Wisconsin, College of Agriculture and Agricultural Experiment Station, R. K. Froker, Dean Col. Director Station, Dir. Extension Service; Noble Clark, Assoc. Dir. of Station; H. L. Ahlgren, Assoc. Dir. Extension Service.

Sub Stations:

Ashland—

Branch Experiment Station, Garit Tenpas, Supt.

Coddington—

Branch Experiment Station, Theodore Jensen, Supt., Foreman.

Hancock—

Branch Experiment Station, Gilbert Brooks, Supt.

LaCrosse—

Upper Mississippi Erosion Station (Coop. U. S. D. A.), O. E. Hays, Supt.

Lake Mills—

Emmons Blaine, Jr., Experiment Farm, J. Warren Deppe, Supt.

Marshfield—

Branch Experiment Station, Russell Johannes, Supt.

Spooner—

Branch Experiment Station, A. M. Strommen, Supt.

Sturgeon Bay—

Peninsular Branch Experiment Station, F. A. Gilbert, Supt.

WYOMING—

Laramie—

University of Wyoming, College of Agriculture and Agricultural Experiment Station, H. M. Briggs, Dean Col. of Agr., Director of Station; George Bridgmon, Asst. Director, chg. substations; G. H. Starr, Dir. of Extension.

Sub Stations:

Afton—

Afton Substation, R. J. Hyer, Supt.

Cheyenne—

William L. Chapman, Commissioner of Agriculture, Room 310 Capitol Bldg.

Gillette—

Gillette Substation, Leland L. Landers, Supt.

Sheridan—

Sheridan Substation, O. K. Barnes, Supt. Box 879.

Torrington—

Torrington Substation, L. H. Paules, Supt.

MELSON FERTILIZER CO., INC.

PROCESSORS OF

DEHYDRATED — POULTRY MANURE — DEODORIZED

SCIENTIFICALLY DRIED AND GROUND ESPECIALLY FOR FERTILIZER CONDITIONING

GEORGETOWN

DELWARE



MURIATE
OF POTASH

THIS symbol stands for high-grade Muriate of Potash (60% K₂O minimum). Southwest Potash Corporation provides a dependable supply of HIGH-K Muriate for the plant food industry.

Trade Mark

Southwest Potash Corporation

61 BROADWAY ★ NEW YORK 6, N. Y.

NATURAL ORGANIC NITROGEN

adds the magic touch

Use Natural Organic nitrogen — the bonus ingredient in premium fertilizers. Many thousands of farmers consider it necessary for slowly available nitrogen that feeds the crop steadily throughout the growing season. Hynite also adds valuable minor elements important to crop response.

For those who prefer the "organic touch," use a good percentage of Hynite Tankage in your fertilizer mixtures. Hynite will provide the Natural Organic Nitrogen that stays on the job during mid-summer and at other times when crop needs are most critical. Used in sufficient quantities, it will condition complete fertilizer and make it flow readily from the bag and through the distributor.

Hynite is high in nitrogen, high availability, low water solubility. Send your order or write for details.

UNITED FERTILIZER CO.
CARROLLVILLE, WISCONSIN

Highest availability • Carries valuable minor elements



ALPHABETICAL LIST OF FERTILIZER MANUFACTURERS

Acme Fertilizer Co., Acme, N. C. and Wilmington, N. C.
Activated Fertilizer Corp. of Washington, Spokane, Wash.
A. D. Adair & McCarty Bros., Inc., Atlanta, Ga. Main Office. Plants: Chattanooga, Tenn.; Gray Station, Tenn.
Adco Works, Carlisle, Pa.
AFC. Co., Edison, Calif.
Agroform Co., Inc., Glendale, Ariz.; Holtville, Calif.; Wasco, Calif.
Agri-Chem. of Texas, San Antonio, Texas
Agricultural Chemicals Service Co., Richmond, Calif.
Agricultural Chemicals, Ltd., Chambly, Canton, Que., Canada; Sales Office, Plant: Port Hope, Ont., Canada
Agricultural, Industrial & Domestic Products, Inc., Wichita, Kansas
Agricultural Processing Industries, Inc., Denver, Colo.
Agricultural Products Corp., Highview, Iowa; Webster City, Iowa; Anthony, N. M.
Agricultural Supply Corp., North Palm Springs, Calif.
Agro Phos. Co., Norwalk, Calif.
Agssco Chemicals, Inc., Grand Forks, N. D.
Ahlswede Fertilizer Co., Arlington, Calif.; Riverside, Calif.
Aiken Fertilizer Co., Aiken, S. C.
Alabama Fertilizer Co., Montgomery, Ala.
Alabama Oil & Guano Co., Opelika, Ala.
Alabama Warehouse Co., Inc., Troy, Ala.
Alaska Liquid Fish Fertilizer Co., Seattle, Wash.
Albany Warehouse Co., Albany, Ga.
Aldredge Industrial Oils, Inc., Indianapolis, Ind.
Alfo Liquid Fertilizer Co., Charlotte, N. C.
Allen Co., Ltd., Pittstown, N. J.
Alliance Fertilizer Corp., Ellerson, Va.; Milford, Va.
All States Fertilizer Co., Greenwood, Miss.
The American Agric. Chem. Co., New York, N. Y. Home Office. Plants: Montgomery, Ala.; Pensacola, Fla.; Pierce, Fla.; Savannah, Ga.; National Stock Yards, East St. Louis, Ill.; Fulton, Ill.; National Stock Yards, Ill.; Houlton, Maine; Searsport, Maine; Baltimore, Md.; North Weymouth, Mass.; Detroit, Mich.; Saginaw, Mich.; Laurel, Miss.; Carteret, N. J.; South Amboy, N. J.; Buffalo, N. Y.; Phoenix, N. Y.; Greensboro, N. C.; Henderson, N. C.; Cincinnati, Ohio; Cleveland, Ohio; Charleston, S. C.; Columbia, S. C.; Spartanburg, S. C.; Alexandria, Va.; Norfolk, Va.; Havana, Cuba
American Brand Fertilizer Co., Hobart, Ind.
American Chemical Paint Co., Ambler, Pa.
American Corp., Terminal Island, Calif.
American Cyanamid Co., New York, N. Y.
American Liquid Fertilizer Co., Inc., Marietta, Ohio
American Potash & Chemical Corp., Los Angeles, Calif.; Trona, Calif.
Americus Oil Co., Americus, Ga.
Anaconda Copper Mining Co., Fertilizer Dept., Anaconda, Mont.
Anderson Fertilizer Co., Inc., Anderson, S. C.
Anderson Guano Co., Timmonsville, S. C.
Anhydrous Ammonia Co., Elizabethtown, Ky.
Apco Fertilizer Co., Halls, Tenn.
Apothecaries Hall Co., Waterbury, Conn.
Arcadia Cotton Oil Co., Arcadia, La.
Arkansas Farmers Plant Food Co., North Little Rock, Ark.

Following this department is a Directory of Fertilizer Manufacturers, listed by states and communities, and giving detail as to plants and personnel.

Ark.-La. Cotton Oil Co., Magnolia, Ark.
Ark.-Mo. Plant Food Co., Walnut Ridge, Ark.
Arizona Agro-Phosphate Co., Phoenix, Ariz.
Arizona Fertilizers, Inc., Phoenix, Ariz.; Yuma, Ariz.
Arizona Plant Food Corp., Glendale, Ariz.
Arlington Mfg. Co., Arlington, Ga.
Arlington Peanut Co., Arlington, Ga.
H. M. Arnold Fertilizer Co., Monroe, Ga.
Aroostook Federation of Farmers, Caribou, Maine, Home Office. Plants: Ft. Kent, Maine; Sherman, Maine
Aroostook Hi-Test Fertilizer Co., Presque Isle, Maine
Armour Fertilizer Works, Atlanta, Ga. General Office, Plants: Birmingham, Ala.; Montgomery, Ala.; Bartow, Fla.; Jacksonville, Fla.; Albany, Ga.; Augusta, Ga.; Columbus, Ga.; Chicago Heights, Ill.; East St. Louis, Ill.; Jeffersonville, Ind.; New Orleans, La.; Presque Isle, Maine; Searsport, Maine; Baltimore, Md.; Winona, Minn.; North Kansas, City, Mo.; Carteret, N. J.; New York City; Greensboro, N. C.; Navassa, N. C.; Cincinnati, Ohio; Sandusky, Ohio; Columbia, S. C.; Columbia, Tenn.; Nashville, Tenn.; Dallas, Texas; Houston, Texas; Norfolk, Va.; Havana, Cuba; Matanzas, Cuba; San Juan, P. R.
Associated Chemicals, Salinas, Calif.
Atkins and Durbrow, Inc., New York City
Atlanta Chemical Co., Atlanta, Ga.
Atlantic Fertilizer Corp., Riverhead, N. Y. Plant at Jamesport, N. Y.
Atlas Chemical Co., San Francisco, Calif.
Atwafer Co., Locke, N. Y.
Augusta Fertilizer Works, Augusta, Ga.
Australian Fertilizers, Ltd., Sydney New South Wales, Australia
Albatros Superfosfatfabrieken, N. V., Utrecht, Holland

B

B. & W., Inc., Edison, Calif.
Bactex Co., Inc., San Antonio, Texas
Bandini Fertilizer Co., Los Angeles, Calif.
Banks Fertilizer Co., St. Matthews, S. C.
The F. A. Barlett Tree Expert Co., Stamford, Conn.
Bartlett & O'Bryan Fertilizer Co., Owensboro, Ky.
M. H. Barnett, Washington, Ga.
Batesburg Fertilizer Co., Batesburg, S. C.
J. E. Bauknight, Jr., Walhalla, S. C.
The Baugh & Sons Co., Baltimore, Md., Main Office. Plants: Newark, N. Y.; Oneida, N. Y.; New Bern, N. C.;

Canton, Ohio; Fostoria, Ohio; Philadelphia, Pa.; Norfolk, Va.; Portsmouth, Va.
D. A. Beam Co., Inc., Shelby, N. C.
Tom Beard Assoc., Boulder Industrial Minerals Corp., Las Vegas, Nevada
Beebee Fertilizers, Inc., Shafter, Calif.
Bennett and Clayton Co., Inc., Prospect Plains, N. J.
Benson-MacLean, Bridgeton, Indiana
Bennett-Mount Co., Highstown, N. J.
Benton Supply Co., Monticello, Ga.
Berrien Products Co., Inc., Nashville, Ga.
The Best Fertilizers Co., Oakland, Calif.
The Best Fertilizers Co. of Texas, Houston, Texas
B. H. C. Crop Service, Visalia, Calif.
Bioproducts, Oreg., Ltd., Warrenton, Oreg.
Birds Eye-Snyder Division, General Foods Corp., Hillsboro, Oreg.
The Blackshear Manufacturing Co., Blackshear, Ga.
Blackstone Guano Co., Inc., Blackstone, Va.
M. E. Bland, Mayesville, S. C.
Blue Belt Fertilizer Co., Savannah, Ga.
Blue Grass Plant Food, Inc., Cynthiana & Danville Ky.
Blue Valley Fertilizer Co., Marysville, Kansas
Blytheville Fertilizer Corp., Blytheville, Ark.
F. W. Bolgiano & Co., Washington, D. C.
Bone Dry Fertilizer Co., Richmond, Va.
Border Fertilizer & Supply Co., El Centro, Calif.
Boyer Fertilizer Corp., Ft. Worth, Texas
Boyer Fertilizer Service, Watsonville, Calif.
Brancucci Brothers, Denver, Colo.
Britz Chemical Co., Oakland, Calif.
Leon Brown Floral Co., Salt Lake City, Utah
Brown & Bryant, Shafter, Calif.
Buckerfield's, Ltd., Vancouver, B. C., Canada
The Buhner Fertilizer Co., Inc., Danville, Ill.
The Buhner Fertilizer Co., Seymour, Ind.
Burdette Mill & Gin Co., Washington, Ga.
Burley Belt Plant Food Works, Lexington, Ky.
Burlingham-Meeker Lime Co., Amity, Oreg.
Burlington Rendering Co., Burlington, Vt.
Burns and Co., Ltd., Prince Albert, Calgary, Alberta, Regina, Sask., Vancouver, B. C., Winnipeg, Man., Canada
W. C. Bradley Co., Columbus, Ga.
Woodworth Bradley, Inc., Providence, R. I.
Bradley & Boswell, Ellerson, Va.
Brown Fertilizer Co., Inc., Blacksville, S. C.
Bryan Cotton Oil & Fertilizer Co., Bryan, Texas
Bryant's, Inc., Bartow, Ga.
Herbert Bryant, Inc., Alexandria, Va.
Burr Gin and Fertilizer Co., Cheraw, S. C.

C

Cacitazona Mfg. Co., Garden Grove, Calif.
Cagmar Chemical Co., Santa Clara, Calif.
Caldwell & Co., Spartanburg, S. C.
California Cotton Oil Co., Los Angeles, Calif.
California Liquid Fertilizer Co., Pasadena, Calif.
California Spray Chemical Co., Lindsay, Calif.; Richmond, Calif.
Calif. Sun Fertilizer Co., Los Angeles, Calif.
Camilla Cotton Oil Co., Camilla, Ga.
Campbell Fertilizer Co., Houston, Texas
Canadian Industries, Ltd., Agric. Chem. Dept., Montreal, Que., Canada, Head Office, Plants; Beloeil, Que., Canada; Chatham, Ontario, Canada; Halifax, N. S., Canada; Hamilton, Ont., Canada
Canada Packers, Ltd., Fertilizer & Feed, Toronto, Canada, Head Office, Plants; Chatham, Ont., Canada; Port Williams, N. S., Canada; Montreal, Que., Canada;
Quebec-Sillery, Canada; St. John, N. B., Canada; Ste Foy, Que., Canada; Summerside, P. E. I., Canada; Welland, Ontario, Canada; West Toronto, Ont., Canada
Cantelou-Law Gin and Warehouse Co., Wetumpka, Ala.
Capital Feed & Seed Co., Phoenix, Ariz.
Capital Fertilizer Co., Montgomery, Ala.; Denver, Colo.
Carbola Chemical Co., Inc., Natural Bridge, N. Y.
Carlisle Fertilizer Wks., Inc., Carlisle, Pa.
Carlsbad Bat Guano Co., Tustin, Calif.
Carlsbad Bat Guano Corp., Santa Ana, Calif.
Carolina Mixing Co., Fairfax, S. C.
Carolina Phos. and Products Co., Charleston, S. C.
Carnegie Chemical Mfg. Corp., Los Angeles, Calif.
Carr-Boatright, Sandersville, Ga.
Carroll County Cooperative Supplies Assoc., Huntingdon, Tenn.
Carroll Fertilizer Co., Dublin, Ga.
Carstens Packing Co., Tacoma 1, Wash.
Carter Fertilizer Co., Jefferson, Ga.
Cartledge Fertilizer Co., (Div. Wilson & Toomer) Cottontdale, Fla.
A. L. Castle, Inc., Mountain View, Calif.
Catawba Fertilizer Co., Lancaster, S. C.
Centrala Farmers Co-Op, Inc., Selma, Ala.
Central Chemical Corp., Butler, Pa.; Everett, Pa.; Gettysburg, Pa.; Hagerstown, Md.; Harrisonburg, Va.; Lebanon, Pa.; Milton, Pa.; Crimora, Va.
Central of Ga. Fertilizer Co., Macon, Ga.
Central Illinois Plant Food, Inc., Tuscola, Ill.
Central Oil & Milling Co., Clayton, N. C.
Central Texas Fertilizer Co., Inc., Comanche, Texas
Chamberlin & Barclay, Inc., Cranbury, N. J.
Chase & Co., Sanford, Fla.
Chatelier's Laboratories, St. Petersburg, Fla.
Chavala Cooperative, Inc., Phenix City, Ala.
Chemicals Div. Pacific Supply Cooperative, Madras, Oreg.; Portland, Oreg.
Chemical Fertilizer Co., Modesto, Calif.
Chemical Formulators, Inc., Charleston, W. Va.
Chewsville Co-Operative, Assn., Inc., Chewsville, Md.
Chilean Nitrate Sales Corp., New York, N. Y.
Cimota-Enterprises, Inc., Boise, Idaho
Circle Mfg. Co., Social Circle, Ga.
Citrus Culture Corp., Mount Dora, Fla.
Clanton Fertilizer Co., Inc., Clanton, Ala.
Claude & Letsinger Agric. Supply, Porterville, Calif.
Coast Agri. Fertilizer Co., Pasadena, Calif.
Coast Fisheries, Div. of Quaker Oats Co., Wilmington, Calif.
Coastal Fertilizer Co., Hemmingway, S. C.
Cochran Fertilizer Plant, Butler, Ga.
Coleman Gin & Fertilizer Co., Inc., Swainsboro, Ga.
Coleman Guano Co., Pamlico, S. C.
Colloidal Plant Food Co., Los Angeles, Calif.
Colorado Liquid Fertilizer Co., (Colorado Corp) Manzanola, Colo.
Colorado Plant Food Co., Manzanola, Colo.; Rocky Ford, Colo.
Colonial Fertilizer Co., Ltd., Windsor, N. S., Canada
Commerce Fertilizer Co., Commerce, Ga.
Commonwealth Fertilizer Co., Inc., Russellville, Ky.
Compost Corp. of America, Oakland, Calif.
Consolidated Chemical Industries, Inc., San Francisco, Calif.
The Consolidated Mining & Smelting Co. of Canada, Ltd., Montreal, Que., Canada, Head Office, Plants: Calgary, Alberta, Canada; Trail, B. C., Canada; Vancouver, B. C., Canada
Consolidated Rendering Co., Presque Isle, Maine; Boston, Mass.
Consumers Bagging Co., Inc., Tuscaloosa, Ala.
Consumers Cooperative Assn., Main office, Kansas City, Mo. Plants: Eagle Grove, Iowa; St. Joseph, Mo.; Muskogee, Okla.

INTERNATIONAL

Mining and Manufacturing Phosphate • Plant Foods
Potash • Chemicals • Industrial Minerals • Amino Products

fertilizer materials



potash Muriate of Potash

Granular Muriate of Potash • Sulfate of Potash
Sul-Po-Mag* (Water-Soluble Double Sulfate of Potash Magnesia)

phosphate Florida Pebble Phosphate

Tennessee Phosphate Rock • Phosphate for the manufacture
of industrial chemicals and complete fertilizers.
Natural Ground Rock Phosphate for direct application to the soil.

plant foods Complete Fertilizers

Fertilizer Materials • Superphosphate

*SUL-POMAG TRADE MARK REG. U. S. PAT. OFF.

INTERNATIONAL MINERALS & CHEMICAL CORPORATION

General Offices: 20 North Wacker Drive, Chicago 6

YEAR BOOK, SEPTEMBER, 1953

Contentnea Guano Co., Wilson, N. C.
Cooperative Abonos Cuba, S. A., Havana, Cuba
Cooperative Fertilizer Service of Richmond, Inc., Louisville, Ky.; Winchester, Ky.; Salisbury, N. C.; Culpeper, Va.; Norfolk, Va.; Richmond, Va.
Cooperative Plant Foods, Inc., Schererville, Ind.
Cornland Plant Foods, Grinnell, Iowa.
Coronet Phosphate Co., New York, N. Y.
The Cotton Producers Association, Atlanta, Ga. Home office: Plants: Adel, Ga.; Carrollton, Ga.; Cordele, Ga.; Savannah, Ga.; Sylvester, Ga.
Cotton States Fertilizer Co., Macon, Ga.
Covington Fertilizer Co., Andalusia, Ala.
Crane Fertilizer Co., Sacramento, Calif.
Crawford Chemical Co., Inc., Bartlesville, Okla.
Newton Crouch, Griffin, Ga.
Crown Chemical & Mfg. Co., West Point, Miss.
Crystal Chemical Co., Inc., South Sioux City, Nebr.
The W. F. Cullens Fertilizer Co., Camilla, Ga.
J. E. Culler Fertilizer Co., North, S. C.
Cumberland Chemical Co., Hopkinsville, Ky.
Cumberland Fertilizer Co., Bridgeton, N. J.
Cumberland Valley Cooperative Assn., Shippensburg, Pa.
Marques Commercial, Inc., Arecibo, P. R.
Curry Chemical Co., Inc., Scottsbluff, Neb.
C. Roy Curtis and Son, Inc., Marion, N. Y.
Cuthbert Gin Co., Cuthbert, Ga.

D

Dadeville Fertilizer & Gin Co., Dadeville, Ala.
C. P. Daniel's Sons, Senoia, Ga.
Darling & Co., Cairo, Ill.; Chicago, Ill.; East St. Louis, Ill.
The Davison Chemical Corp., Baltimore, Md. Home office: Plants: Bartow, Fla.; Savannah, Ga.; New Albany, Ind.; Perry, Iowa; Gretna, La.; Lake Charles, La.; New Orleans, La.; Curtis Bay, Md.; Lansing, Mich.; Alliance, Ohio; Cincinnati, Ohio; Columbus, Ohio; Nashville, Tenn.
Dawson Compress & Storage Co., Dawson, Ga.
Dawson Cotton Oil Co., Dawson, Ga.
Dayton Coal and Iron Corp., Dayton, Tenn.
Dayton Fertilizer Corp., Dayton, N. J.
Decatur Fertilizer Co., Decatur, Ala.
Delta Cotton Oil & Fert. Co., Jackson, Miss.
Delta Fertilizer Co., Helena, Ark.
Denmark Fertilizer Co., Denmark, S. C.
Paul J. Devitt, Upper Darby, Pa.
D. M. Dew and Sons, Inc., Latta, S. C.
The DeWitt Chemical Co., Kingston, Pa.
Diamond Fertilizer Co., Terra Bella, Calif.
The Diamond Fertilizer Co., Lansing, Mich.; Sandusky, Ohio.
Diamond R Fertilizer Co., Winter Garden, Fla.
Dixie Chemical Corp., New Bern, N. C.
Dixie Fert. Co., Shreveport, La.
Dixie Guano Co., Laurinburg, N. C.
Dixie Guano Co., Inc., Shreveport, La.
Dixie Guano Co., Inc., Suffolk, Va.
Dobson Guano Co., Greer, S. C.
Don-Mor Fertilizer Co., San Jose, Calif.
Dooly Fertilizer Co., Vienna, Ga.
Dorchester Cotton Oil Co., St. George, S. C.
Dorchester Fertilizer Co., Cambridge, Md.
Dothan Guano Co., Dothan, Ala.
Douglas Fertilizer Co., Douglas, Ga.
Downey Fertilizer Co., Downey, Calif.
Duval Sulphur & Potash Co., Houston, Texas. Gen. offices—plant: Carlsbad, N. M.; Orchard, Texas.
Dugdale & Sons Fert. Co., Cornelius, Oregon.
J. W. Dunn & Co., Seattle, Wash.

E

E-Town Fertilizer, Elizabeth, Ky.

Eagle Cotton Oil Co., Meridian, Miss.
East Bay Fisheries, San Francisco, Calif.
East Texas Products Co., Tyler, Texas.
Eastern Guano Co., Fayetteville, N. C.
Eastern States Farmers Exchange, Inc., W. Springfield, Mass. Gen. office, Plants: Wilmington, Del., North Cambridge, Mass., Kittanning, Pa., York, Pa.
Eastover Fertilizer Co., St. Matthews, S. C.
Economy Fertilizer Co., Inc., Fort Kent, Maine.
Edmunds Chemical Co., Albuquerque, N. M.
El Dorado Fertilizer Co., El Dorado, Ark.
Elliott Ice Co., Charlottesville, Va.
Amos Ely & Company, Paradise, Pa.
Emco Co., Fresno, Calif.
Empire State Chemical Co., Athens, Ga.
Epting Distr. Co., Leesville, S. C.
The Erie Reduction Co., Erie, Pa.
The Espoma Company, Millville, N. J.
Espy Fertilizer Co., Inc., Headland, Ala.
Etheredge Guano Co., Augusta, Ga.
Etiwedge Fertilizer Co., Charleston, S. C.
Eufaula Cotton Oil Co., Eufaula, Ala.
Eugene Chemical Works, Eugene, Oregon.
Evans, Reed & Williams, Sylvaniana, Ga.
Everglades Fertilizer Co., Ft. Lauderdale, Fla.

F

Falcon Fertilizer Co., Gainesville, Fla.
Falls City Fertilizer, Inc., Grand Island, Neb.
Farm Belt Fertilizer & Chem. Co., Kansas City, Kans., Kansas City, Mo.
The Farm Bureau Cooperative Assn., Inc., Columbus, Ohio.
Farm Bureau Services, Inc., Lansing, Mich., Jefferson City, Mo., New Florence, Mo., Saginaw, Mich.
Farm Chemicals, Inc., Athena, Oregon.
Farm Chemical Co., Tulia, Texas.
Farm Fertilizers, Inc., Newton, Kansas, Omaha, Neb.
Farm Service, Covington, Tenn.
Farm Service, Inc., Opelousas, La.
Farmers Cooperative Assn., Inc., Frederick, Md.
Farmers Cooperative Exchange, Lumberton, N. C., Raleigh, N. C.
Farm Fertilizers, Inc., Newton, Kansas.
Farmers Co-Operative Fert. Purchasers, Inc., Kenbridge, Va.
Farmers Cotton Oil Co., Wilson, N. C.
Farmers Fertilizer Co., Texarkana, Ark., Cairo, Ga., Sumter, S. C., Texarkana, Texas, Columbus, Ohio.
Farmers Fertilizer & Feed Co., Westminster, Md.
Farmers Fertilizer & Milling Co., Colquitt, Ga.
Farmers Fertilizer Works, Elizabethtown, Pa.
Farmers Guano Co. (Branch Farmers Cotton Oil Co.), Norfolk, Va.
Farmers Liquid Nitrogen Co., Centralia, Ill.
Farmers Market & Supply Co., Inc., Las Cruce, N. M.
The Farmers Union Warehouse Co., Monticello, Ga.
Farmers Warehouse Co., Leary, Ga.
The Farmers and Planters Co., Inc., Salisbury, Md.
Farmville Oil & Fertilizer Co., Farmville, N. C.
Fayette Mill, Gin & Ice Co., Fayette, Ala.
Federal Chemical Co., Louisville, Ky. General office: Plants: Butler, Ind.; Danville, Ill.; Columbus, Ohio; Humboldt, Tenn.; Mt. Pleasant, Tenn.; Nashville, Tenn.
Pereda Fernandez, Y Cia, Havana, Cuba.
Perez Galan Y Fernandez, S. L., Havana, Cuba.
Fertilene Corp. of America, Worthington, Ohio.
Ferro Corp., Cleveland 5, Ohio.
The Fertilo Corp., Milwaukee, Wisc.
Fertilizer Mfg. Cooperative, Inc., Baltimore, Md.
Fertilizer Products Corp., Collingswood, N. J.
Fertilizers and Chemicals, Ltd., Haifa, Israel.
Fidelity Chem. Corp., Houston, Texas.
Fidelity Products Co., Edison, Ga.

Florida East Coast Fertilizer Co., Homestead, Fla.
Florida Favorite Fert. Inc., Lakeland, Fla.
Foremost Fertilizer Co., Leesburg, Fla.
Fortified Farm Products Co., Portland, Oregon.
Ft. Laramie Fertilizer Co., Ft. Laramie, Wyo.
Ft. Smith Cotton Oil Co., Ft. Smith, Ark.
The Fort Valley Oil Co., Ft. Valley, Ga.
Fosgate Growers Cooperative, Orlando, Fla.
Fowler Fertilizer Co., Covington, Ga.
Fox Point Chemical Co., Fox Point, R. I., E. Providence, R. I.
Fremont Oil Mill Co., Fremont, N. C.
Fresno Agricultural Chemical Co., Fresno, Calif.
Bob Fruen Fertilizer Co., Hatfield, Minn.

G

G. L. F. Soil Building Service (Div. Coop. G. L. F. Exchange) Ithaca, N. Y. Home Office. Plants: Bridgeport, N. J., Englishtown, N. J., South Kearny, N. J., Yardville, N. J., Albany, N. Y., Batavia, N. Y., Big Flats, N. Y., Bridgehampton, N. Y., Canastota, N. Y., Lyons, N. Y., North Collins, N. Y., Union City, Pa.
Galbraith & Co., Seattle, Wash.
Garden Valley Fert. Co., Campbell, Calif.
Garden Valley Liquid Fert. Co., Milpitas, Calif.
Garden Products Co., St. Louis, Mo.
Gates Brothers, Inc., Wendell, Idaho.
General Fertilizer Co., Fremont, Nebr.
General Fertilizer & Supply Co., Chula Vista, Calif.
General Liquid Fertilizer Co., Kent City, Mich.
Geneva Food and Chemical, Pleasant Grove Utah.
Gentile Bros. Co., Haines City, Fla.
Georgia Belle Guano Co., Newnan, Ga.
Georgia Fertilizer Co., Valdosta, Ga.
Germain's, Inc., Los Angeles, Calif.

Gibsonburg Coal & Fertilizer Co., Gibsonburg, Ohio.
Gilchrist Plant Food Co., Morris, Ill.
Gilmer Cotton Oil & Fert. Co., Gilmer, Texas.
Glades Chemical Co., Pahokee, Fla.
Glenn Fertilizer Co., Willows, Calif.
Globe Fertilizer Co., South Vancouver, B. C. Canada.
The Gloucester County Agric. Co-operative Assn., Inc., Glassboro, N. J.
Golden Gate Plant Food Co., San Francisco, Calif.
Golden State Plant Food Co., Glendora, Calif.
Goodes Seeds & Feed Store, Pasadena, Calif.
Goodrich Fertilizer Co., Del Mar, Calif.
Gorman Peanut Co., Gorman, Texas.
Gormel Plant Food Products, Rochester, N. Y.
A. F. Gossett & Sons, Griffin, Ga.
Goulard & Olena, Inc., Skillman, N. J.
A. D. Graham & Co., Inc., Somerset, Pa.
Gramercy Park Fertilizer Co., Los Angeles, Calif.
Gramling Merc. Co., Inc., Gramling, S. C.
Gregory-Doyle, Inc., Huntington Station, N. Y. Formerly I. P. Thomas (NYO) Corp.
The Green Bay Fertilizer Co., Green Bay, Wise.
Green-Gro Fertilizer & Supply Co., Watsonville, Calif.
Green-Leaf Fertilizer Co., Lockwood, Ohio.
Green and Reedy Fertilizer Co., Franklinton, La.
Green Valley Fertilizer & Chem. Co. Ltd., New Westminister, B. C., Canada.
Greenville Plantfood Co., Greenville, Ala.
Greer Guano Co., Greer, S. C.
Griffith & Boyd Co., Baltimore, Md.
Growers Chemical Supply Co., Azusa, Calif.
Growers Fertilizer Co., Stockton, Calif.
Growers Fertilizer Co., Lovelock, Nevada.
The Growers Fertilizer Co., Ft. Pierce, Fla.
Growers Fertilizer Cooperative, Lake Alfred, Fla.
Guaranty Seed Co., Bunkie, Louisiana.
The Gulf Fertilizer Co., Tampa, Fla., Port Everglades, Fla.

WILSON & TOOMER FERTILIZER COMPANY

And Its Subsidiary Companies

JACKSONVILLE, FLORIDA

FLORIDA AGRICULTURAL SUPPLY COMPANY

- Agricultural insecticides and fungicides Spray and dust forms . . . Salts . . . minor elements used in plant nutrition.

Fertilizer Plants in JACKSONVILLE TAMPA COTTONDALE

- Mixed Fertilizers . . . Superphosphate, bulk and bagged . . . Fertilizer materials . . . Sodium Silico Fluoride . . . Sulphuric acid.

SOUTHERN STATES BAG CO.

Importers & Exporters

- Manufacturer of burlap, cotton and open mesh bags. Dealers & Processors of Used Bags

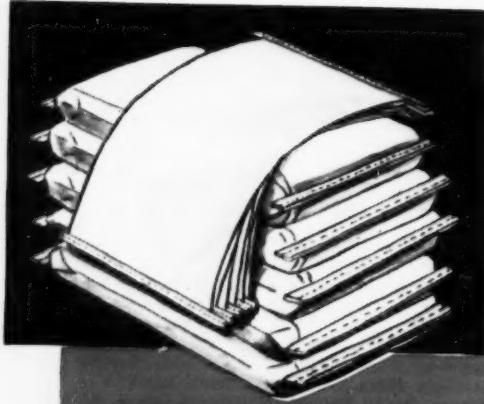
Inquiries will receive prompt attention



WILSON & TOOMER
FERTILIZER COMPANY
and Divisions
FLORIDA AGRICULTURAL SUPPLY COMPANY
Peninsular Fertilizer Works—Tampa • Cartledge Fertilizer Company—Cottondale

DRAWER 4459, JACKSONVILLE 1, FLORIDA

CABLE ADDRESS: IDEALIA



Save valuable storage space with
Raymond Multi-Wall Paper Shipping
Sacks!

A stack of Raymond Shipping Sacks
only a few feet high, when packed,
will hold a ton of commercial fertilizer.

RAYMOND

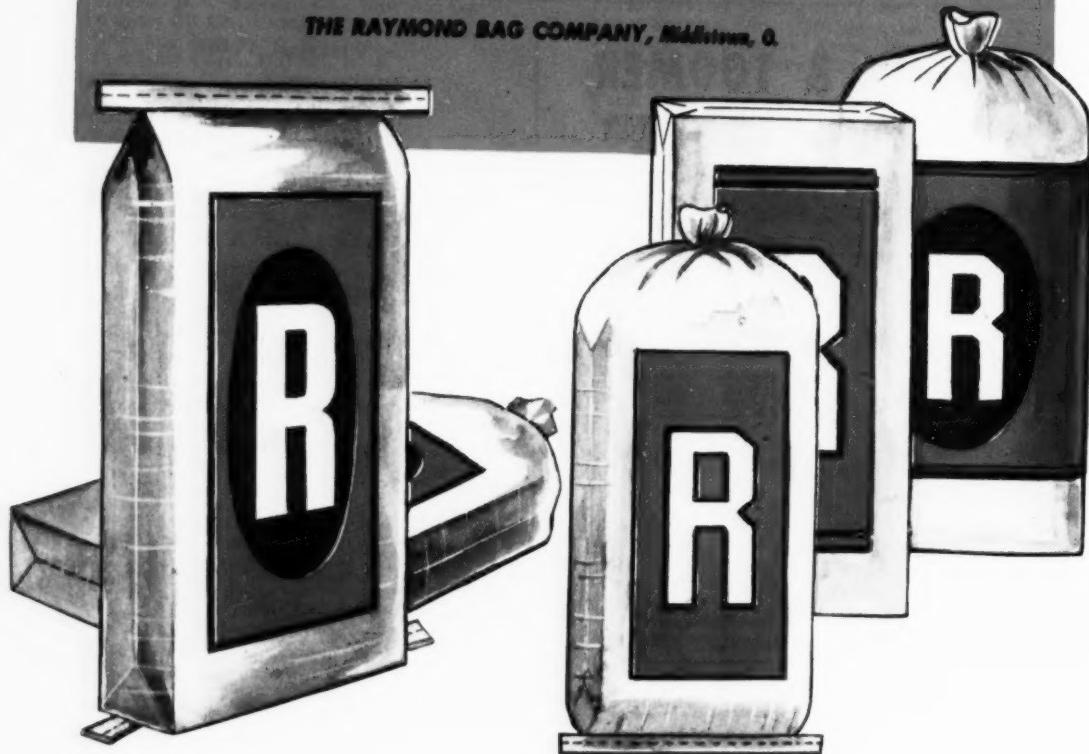
MULTI-WALL

PAPER SHIPPING SACKS

. . . are CUSTOM BUILT in various types, sizes, and strengths to
meet the special requirements of producers, packers, and shippers
of fertilizer. Raymond Shipping Sacks are available printed in
multi-colors or plain.

Specify these tough, strong, dependable Shipping Sacks for your
needs! They are SIFT-PROOF! DUST-PROOF! WATER-RESISTANT!

THE RAYMOND BAG COMPANY, Midland, Q.



Gulf Liquid Fertilizer Co., Bryan, Texas.
Gulfport Fertilizer Co., Gulfport, Miss.
Gurney Seed and Nursery Co., Yankton, S. Dak.
Gutwein Agric. Service, Inc., Francesville, Ind.
H & W Chemicals, Corcoran, Calif.
C. H. Haas Co., San Francisco, Calif., Ceres, Calif.

H

Hager Supply Co., San Bernardino, Calif.
Haines City Fertilizer Works, Haines City, Fla.
Hazelhurst Oil Mill & Fertilizer Co., Hazelhurst, Miss.
Hamilton Farm Bureau Cooperative, Inc., Hamilton, Mich.

The M. Hamm Co., Washington, C. H., Ohio
Hampstead Fertilizer Co., Hampstead, Md.
Hector Supply Co., Miami, Fla.
Peter Henderson-Stumpf & Walter Co., Jersey City, N. J.
Heid Brothers Corp., El Paso, Texas
Hein's Stockmen Supplies, Merced, Calif.
Heller Greenhouse Laboratories, Colorado Springs, Colo.
James Henry Packing Co., Seattle, Wash.
Hershey Estates, Hershey, Pa.
A. W. Higgins Co., Inc., Presque Isle, Maine
Highlands Fertilizer Co., Sebring, Fla.
The Ben Hill Co., Fitzgerald, Ga.
Kickapoo Fertilizer Co., Hillsboro, Wisc.
Alvin H. Hinson, Plant City, Fla.
Hinton & Co., Reynolds, Ga.
Hi-Yield Fert. Co., Bonham, Texas
Hi-Yield Plant Food Co., Mt. Pleasant, Texas
Fred Hodecker, Redman, Oreg.
A. H. Hoffman, Inc., Landisville, Lancaster Co., Pa.
Holly Hill Fertilizer Co., Holly Hill, S. C.
Home Feed & Fertilizer Co., Edenton, N. C.
Home Guano Co., Mullins, S. C.
The Home Guano Co., Dothan, Ala.
The Home Fertilizer & Cotton Oil Co., Inc., Headland, Ala.
Wm. C. Horn, Inc., Bellevue, Ohio
Howard Fertilizer Co., Orlando, Fla.
Howard Phos. Co., (Not Inc.), Orlando, Fla.
William Houde, Ltd., LaPrairie, Que., Canada
Hulme Fertilizer and Warehouse Co., Athens, Ga.
Humphreys-Godwin Co., Memphis, Tenn.
Hurtsboro Fertilizer Co., Hurtsboro, Ala.
Huston, Culver Fertilizers, Inc., Seaford, Del.
Hutson Chemical Co., Murray, Ky.
The Hy-Trous Corp., Woburn, Mass.; Cornwell, Ont., Canada.

I

Idaho Falls Bonded Produce & Supply, Idaho Falls, Idaho
Idaho Organic Fertilizer Co., Inc., Twin Falls, Idaho
Ideal Fertilizer Co., Bartow, Fla.
Illinois Farm Supply Co., Chicago, Ill.; East St. Louis, Ill.
Illinois Valley Supply Co., Carrollton, Ill.
Imperial Cotton Oil Co., Macon, Miss.
Imperial Fertilizer & Sulphur Co., Inc., Calexico, Calif.
Independent Guano Corp., Greenville, S. C.
Independent Mfg. Co., Phila. 27, Pa.
Indiana Farm Bureau Assn., Inc., Columbia City, Ind.; Jeffersonville, Ind.; Indianapolis, Ind.; New Albany, Indiana
Inland Fertilizer Co., Los Angeles, Calif.
International Fertilizer & Feed Co., Bakersfield, Calif.
International Fertilizers, Ltd., Que. P. Q. Ste. Foy, Canada; St. John, N. B., Canada
Int. Min. & Chem. Corp., Chicago, Ill., Main Office.

Plants: Cullman, Ala.; Florence, Ala.; Montgomery, Ala.; Texarkana, Ark.; Bartow, Fla.; Jacksonville, Fla.; Mulberry, Fla.; Orlando, Fla.; Pensacola, Fla.; Albany, Ga.; Americus, Ga.; Atlanta 3, Ga.; Augusta, Ga.; East Point, Ga.; Tifton, Ga.; Chicago Heights, Ill.; Mason City, Iowa; Somerset, Ky.; Shreveport, La.; Houlton, Maine; Woburn, Mass.; Tupelo, Miss.; Carlsbad, N. M.; Buffalo, N. Y.; New York 6, N. Y.; Raleigh, N. C.; Wilmington, N. C.; Winston-Salem, N. C.; Cincinnati, Ohio; Hartsville, S. C.; Spartanburg, S. C.; Columbia, Tenn.; Greenville, Tenn.; Wales, Tenn.; Ft. Worth, Texas

Iowa Plant Food Co., Pocahontas, Iowa
Iowa Plant Food Mfg. Co., Des Moines, Iowa

J

Jackson Fertilizer Co., Jackson, Miss.
Jacksonville Fertilizer Co., Jacksonville, Texas
Jamacia Fertilizer Products, Ltd., Falmouth, Jamaica, British West Indies
Jasper County Service Corp., Renssleer, Ind.
Johnson Cotton Co., Dunn, N. C.
Johnson Cotton Co., Josey Fertilizer Corp., Wilmington, N. C.
Johnson Fertilizer Co., Inc., Griffin, Ga.
Jones Fertilizer Co., Angier, N. C.
Robin Jones Phosphate Co., Nashville, Tenn.
C. M. Jordan, Angelus, S. C.

K

Kaiser Steel Corp., Oakland, Calif.
Kansas Agric. Chemical Co., Inc., Junction City, Kansas
Morris Karp & Son, Farmingdale, N. Y.
Kaw River Valley Fertilizer Co., Inc., Lawrence, Kansas
Kellogg Supply Co., Los Angeles, Calif.; Wilmington, Calif.
Kelly Agric. Products Co., Inc., McKeesport, Pa.
Kelly, Weber & Co., Inc., Eunice, La.; Lake Charles, La.
Kelly-Western Seed Div., Utah Coop. Assoc., Salt Lake City, Utah
Kentucky Fertilizer Works, Winchester, Ky.
Kershaw Oil Mill, Kershaw, S. C.
Keystone Grange Exchange, Drumore, Pa.
Keystone Tanning and Glue Co., Williamsport, Pa.
Kickapoo Fertilizers (Div. Midwestern Phos. Corp.), Hillsboro, Wisc.
Kingsbury & Co., Inc., Indianapolis, Ind.; Peru, Ind.
Kipfer Chemical Co., Harlingen, Texas; Rio Hondo, Texas
Knoxville Fertilizer Company, Knoxville, Tenn. Plants: London, Ky.; Nashville, Tenn.
Koller Fertilizer Co., Inc., Coatesville, Pa.; Glen Rock, (Seitzland) Pa.
The N. S. Koos & Son Co., Kenosha, Wisc.
Kova Fertilizer, Inc., Greensburg, Ind.
William Kroemer & Sons, Inc., Hicksville, N. Y.

L

F. Lagomarsino and Sons, Sacramento 16, Calif.
Lake Charles Feed Co., Inc., Lake Charles, La.
Lancaster Bone & Fertilizer Co., Ephrata, Pa.; Oxford, Pa.; Quarryville, Penn.
Land O' Lakes Creameries, Inc., Minneapolis, Minn.

Lange Brothers, St. Louis, Mo.
Laurel Oil & Fertilizer Co., Laurel, Miss.
Leffingwell Chemical Co., Whittier, Calif.
Leon's Horticulture Specialties Co., Glendale 4, Calif.
Liberty Mfg. Co., Red Springs, N. C.
C. H. Lilly Co., Albany, Oregon
Charles H. Lilly Co., Ellensburg, Wash.; Seattle, Wash.
Lincoln Service & Supply, Inc., Grand Island, Neb.
Lion Oil Co., El Dorado, Ark.
Liquid Fertilizers, El Centro, Calif.
Liquid Fertilizer and Chemical Co., Inc., Jackson, Tenn.
Liquid Plant Food, Monrovia, Calif.
Liquinox Co., Orange, Calif.
Lodi Agriculture Suppliers, Inc., Lodi, Calif.
Logan-Robinson Fertilizer Co., Charleston, S. C.
Loncala Phos. Co., High Springs, Fla.
Longaker Mills, Inc., (Div. Federal Chem. Co.) Butler, Ind.
Long Island Produce and Fertilizer Co., Inc., Riverhead, N. Y. Main Plant. Plants: Mattituck, L. I., N. Y.; Southold, N. Y.
Looper & Swann, Dalton, Ga.
Fred E. Lord, Inc., Espy, Pa.
Louisiana Agricultural Supply Co., Inc., Baton Rouge, La.
Louisville Fertilizer and Gin Co., Louisville, Ga.
Lovett & Co., Inc., Wrightsville, Ga.
Lovett & Brinson, Inc., Dublin, Ga.
Lowell Rendering Company, Lowell, Mass.
Lynchburg Fertilizer Co., Lynchburg, S. C.
Lynden Department Store, Inc., Lynden, Wash.
Lyons Fertilizer Co., Tampa, Fla.

M

M-16 Products, Inc., Leesburg, Fla.
K. W. Macdonald Co., Watsonville, Calif.
J. A. McCarty Seed Co., Evansville, Ind.
McConnell & Co., Royston, Ga.
McCormick & Co., Inc., Baltimore, Md.
McCrea Seed & Chemical Co., Santa Barbara, Calif.
McDuffie Oil & Fert. Co., Thomson, Ga.
P. R. McKnight and Son Gin Co., Senoia, Ga.
McLaurin's, Inc., Rockingham, N. C.
McLees Fertilizer Co., Anderson, S. C.
McMillan and Harrison Fertilizer Co., Mobile, Ala.
Mackenzie Chemical Co., Sacramento, Calif.
Chemicals Dept., Macondray & Co., Inc., Manila, Philippines
Magee Cooperative Gin A. A. L., Magee, Miss.
Magnolia Cotton Oil Co., Magnolia, Miss.
Magnolia Fertilizer Co., Vicksburg, Miss.
Magnolia Fertilizer Co., Seattle 7, Wash.
Maine Potato Growers, Inc., Presque Isle, Maine
Malmo Nurseries & Seed Stores, Seattle, Wash.
Manchester Products, Galt, Ont., Canada
Manito Filler Co., Inc., Peoria, Ill.
Menning and Shine, Latta, S. C.
Cipriano Manrique, Inc., Caguas, P. R.
M. rico, Inc., Ocala, Fla.
Paul H. Mariani, Jr., Cupertino, Calif.
Marine By-Products Fertilizer Co., Inc., Portland, Oreg.; Seattle, Wash.
Marine Feed & Fertilizer Co., Gulfport, Miss.
Marion Cotton Oil Co., Marion, S. C.
Marion Plant Life Fertilizer Co., Marion, Ohio
The Malboro Fertilizer Co., Clio, S. C.
Marshall Cotton Oil Co., Marshall, Texas
Zaldo y Martinez, S. A., Havana, Cuba
Mashburn and Fitzgerald, Rochelle, Ga.

Mason Gin & Fertilizer Co., Madison, Ga.
Master Fertilizer Co., Inc., Fairmont, N. C.
Mathieson Chemical Corp., Mathieson Agricultural Chemicals Division, Baltimore, Md., Main Office. Plants: Little Rock, Ark.; Phoenix, Ariz.; Lake Charles, La.; Curtis Bay, Md.; Jackson, Miss.; St. Louis, Mo.; Williamston, N. C.; Lebanon, Pa.; Houston, Texas; Pasadena (Houston,) Texas; Morgantown, W. Va.

Maxcy Fertilizers, (Dept. Clinton Foods, Inc.) Frost-proof, Fla.

Maxton Oil & Fertilizer Co., Maxton, N. C.

Maybank Fertilizer Corp., Charleston, S. C.

Mayesville Mixing Co., Mayesville, S. C.

Medford's, Inc., Chester, Pa.

Meeker-Hughes Co., Inc., Salem, Oreg.

The Frederick Mehring Fertilizer Works, Inc., Keymar, Pa.

Meigs Farmers Cooperative, Decatur, Tenn.

Melson Fertilizer Co., Inc., Georgetown, Del.

Merchants Fertilizer and Phos. Co. of Pensacola, Inc., Pensacola, Fla.

Merco Co. of Gaffney, Gaffney, S. C.

Meridian Fertilizer Factory, Hattiesburg, Miss.

Miami Fertilizer Co., Dayton 10, Ohio

Michigan Farm Bureau Services, Kalamazoo, Mich.

Midtex Liquid Fertilizer Co., Waco, Texas

Midwest Plant Food, Inc., Napoleon, Ohio

Milford Fertilizer Co., Milford, Del.

The Millen Fertilizer Co., Millen, Ga.

Millhaven Co., Millhaven, Ga.

Miller Fertilizer Co., Henderson, N. C.; Jefferson, S. C.

Miller Chemical Corp., Charleston, W. Va.

Miller Chemical & Fertilizer Corp., Baltimore, Md. Main Office. Plants: Whiteford, Md.; Hanover, Pa.

Miller Products Co., Portland, Ore.

Mills Fertilizer Co., Gramling, S. C.

James Mills Growers Service Co., Hamilton City, Calif.

Milwaukee Sewerage Commission, Milwaukee, Wisc.

Min-A-Ray Products Co., Los Angeles, Calif.

Minden Cotton Oil & Ice Co., Minden, La.

Mineral Fertilizer Co., Inc., Midvale, Utah

Minnesota Farm Bureau Service Co., Moorhead, Minn.: St Paul 1, Minn.

Misner Fertilizers, Port Dover, Ont., Canada

Miss. Federated Cooperatives, Canton, Miss.; Corinth, Miss.; Jackson, Miss.; Laurel, Miss.; Meridian, Miss.

Missouri Farmers Assn., Inc., Columbia, Mo.; Maryland Hts., Mo.; Springfield, Mo.

Missouri Plant Foods, Sikeston, Mo.

Modern-Ag Crop Service, Fresno 1, Calif.

Molony Fertilizer Co., Charleston, S. C.

Moloney Seed Co., Vista, Colo.

Monroe Oil and Fertilizer Co., Monroe, Ga.

The Moore Co., Savannah, Ga.

Moron Fertilizer Co., Twin Falls, Idaho

The Morris Fertilizer Co., Rushville, Ind.; Greensboro, N. C.; Wilmington, N. C.

V. W. Morris & Son, Inc., Rushville, Ind.

Mountain Copper Co., San Francisco, Calif.

Muscle Shoals Chemical Co., Tuscumbia, Ala.

Mutual Fertilizer Co., Savannah, Ga.

N

Na-Churs—Plant Food Co., Marion, Ohio

Na-Churs Plant Food Co., Ltd., London, Canada

Naco Fertilizer Co., New York, N. Y. Main Office. Plants: Los Angeles, Calif.; Madera, Calif.; San Francisco, Calif.; Santa Clara, Calif.; Ft. Pierce, Fla.; Jackson-

ville, Fla.; Wilmington, N. C.; Findlay, Ohio; Charleston, S. C.; Spartanburg, S. C.
National Fertilizer Co. (Div. Nat'l. By Products, Inc.) Des Moines, Iowa
National Fertilizer Co. Fairbury, Nebr. Plants: Des Moines, Iowa & Denver, Colo.
Nebraska Fertilizer Co. Omaha, Nebr.
Neosho Fertilizer, Inc. Chanute, Kans.
New Bern Oil & Fertilizer Co. New Bern, N. C.
New Haven Rendering Co. New Haven, Conn.
Newton Oil Mill, Newton, Miss.
Newton Oil and Fertilizer Co. Newton, N. C.
Nichols Fertilizer Corp. Norfolk, Va.
W. P. Nimmons and Co. Seneca, S. C.
Nitro Fertilizer, Inc. Salina, Kansas
Nitrogen Division Allied Chemical & Dye Corp. New York 6, N. Y.
Lloyd W. Nolt, Silver Spring, Pa.
Norsco Products, Inc. San Jose, Calif.
North American Fertilizer Co. Louisville, Ky.
North American Phosphate Co. Louisville, Ky.
North East Mississippi Fertilizer Co. Amory, Miss.
North Idaho Chemical Co. Lewiston, Idaho
Northern Calif. Fertilizer Co. San Jose, Calif.
Northern Chemical Industries, Searsport, Maine
Northern Peat and Guano Co., Inc. Anaheim, Calif.
Northwest Chemical Co. Yakima, Wash.
Northwest Cooperative Mills, St. Paul, Minn. Main Office: Plants: Winona, Minn.; Green Bay, Wis.
Northwest Gypsum Co. Colfax, Wash.
Northwest Wholesale, Inc. Wenatchee, Wash.
Nutritional Concentrates, Inc. New Lexington, Ohio
Nutt and Bond, Inc. Jackson, Ga.



Ochoa Fertilizer Corp., Hato Rey, P. R. Main office. Plants: Guanica, P. R.; Ponce, P. R.
Ocilla Oil & Fertilizer Co. Ocilla, Ga.
The Ohio Farmers Grain & Supply Assoc. Fostoria, Ohio
Ohio Valley Fertilizer Corp. Maysville, Ky.
Oil Mill & Fertilizer Works, Henderson, Texas
Oklahoma Farmers Union, Yukon, Okla.
Okla. Fertilizer & Chemical Co. Okla. City, Okla.
Old Deerfield Fertilizer Co., Inc. South Deerfield, Mass.
Olds & Whipple, Inc. Hartford, Conn.
Omega Finance Co. and Omega Fertilizer Works, Omega, Ga.
Ontario Fertilizer Works, Inc. Ontario, Calif.
Orange Belt Supply Co. Lindsay, Calif.
Organic Factors and Chemicals, French Camp, Calif.
Organic Plant Food Co. Lancaster, Pa.
Orchard Supply Co. San Jose, Calif.
Oregon Portland Cement Co. Oswego, Oreg.
Oregon-Washington Fertilizer Co. Seattle, Wash.

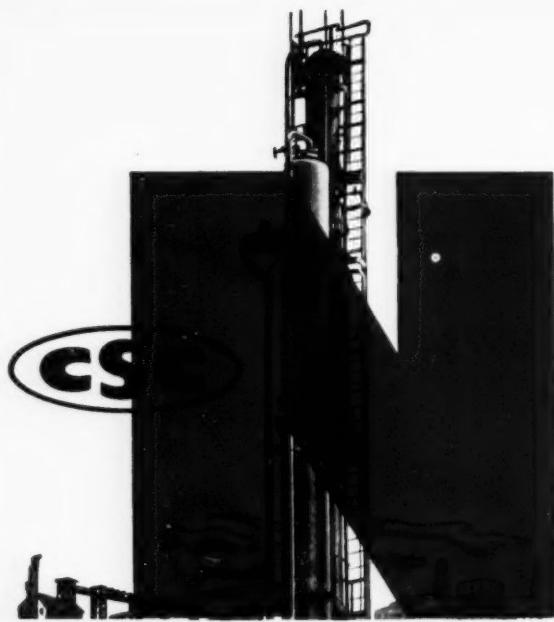


Pacific Coast Fertilizer Co. Thermopolis, Wyo.
Pacific Guano Co. Berkeley, Calif. Main office. Plants: Los Angeles, Calif.
Pacific Supply Cooperative, Ontario, Oreg.
Parco, Inc. Los Angeles, Calif.
Pasco Packing Co. Fertilizer Division, Dade City, Fla.
Pasquotank Fertilizer Co. Elizabeth City, N. C.
Pearsall & Co. Wilmington, N. C.
Pearson-Ferguson Chemical Co., Inc. Kansas City, Mo.

Peavey Fertilizer Plant Div. F. H. Peavey Co., Minneapolis. Plant: Fargo, North Dakota
Peerless Fertilizer Co. Chestertown, Md.
Pelham Phos. Co. Pelham, Ga.
Pendleton Oil Mills, Inc. Pendleton, S. C.
Peninsular Fertilizer Works, Tampa, Fla.
Pennsylvania Farm Bureau Cooperative Assn. Curtis Bay, Md.: Harrisburg, Pa.
Penn. Fruit Co., Inc. Philadelphia, Pa.
People's Fertilizer Co. Foley, Ala.
Peterman Agricultural Co. Peterman, Ala.
James S. Peters Fertilizer Co. Manchester, Ga.
Robert B. Peters Co. Allentown, Pa.
Phillips Chemical Co. Bartlesville, Okla.
Dr. P. Phillips Fertilizer, Inc. Orlando, Fla.
Phoenix Chemical Co. Phoenix, Ariz.
Phosphate Fertilizer Co., Inc. Kemmerer, Wyo.
Piedmont Fertilizer Co., Inc. Opelika, Ala.
Piedmont Fertilizer Corp. Greenwood, S. C.
J. L. Pelcher & Sons, Inc. Meigs, Ga.
The Pine Level Oil Mill Co. Pine Level, N. C.
Pinelas Growers Association Fertilizer Works, Clearwater, Fla.
Pioneer Phos. Co., Inc. Des Moines, Iowa
Plantabbs Corp. Baltimore, Md.
Plantsmiths, Palo Alto, Calif.
Planters Cotton Oil & Fertilizer Co. Rocky Mount, N. C.
The Planters Exchange, Inc. Havana, Fla.
Planters Fertilizer and Phos. Co. Charlotte, N. C.; Charleston, S. C.
Planters Fertilizer & Soybean Co. Pine Bluff, Ark.
Planters Warehouse & Loan Co. Fitzgerald, Ga.
Planters Warehouse Co. of Newborn, Ga. Newborn, Ga.
Plant Food Corp. Los Angeles, Calif. Main office: Plant: Bakersfield, Calif.
Plant Products Corp. Blue Point, N. Y.
Plymouth Citrus Growers Assoc. Plymouth, Fla.
Polk County Fertilizer Co. Haines City, Fla.
Henry A. Pollak and Co. Hicksville, L. I., N. Y.
Pomona Fertilizer Co., Inc. Pomona, Calif.
Port Fertilizer & Chemical Co. Los Fresnos, Texas
Portland Rendering Co. Portland, Maine
Potash Co. of America, Carlsbad, N. M.
Premier Peat Moss Corp. New York, N. Y.
Brice Presby and Son, Joseph, Utah
Price Chemical Co. Louisville, Ky.
Warner W. Price Co., Inc. Smyrna, Del.
Chas. W. Priddy & Co., Inc. Norfolk, Va.
A. F. Pringle & Co., Inc. Charleston, S. C.
Procon Industries, Hayward, Calif.
"Pronto" Liquid Fertilizer Corp. Eunice, La.
John Pryor Co. Salinas, Calif.
Productora de Acidos y Fertilizantes, S. A. Habana, Cuba
Productora de Superfertilizantes, S. A. Habana, Cuba
Pacific Chemical & Fertilizer Co. Honolulu, 10, Hawaii. Home office. Plants: Hilo, Hawaii; Kahului, Hawaii; Puhi, Hawaii



Rabb & Smith, Inc. Fountain Inn, S. C.
J. P. Rabun, Stapleton, Ga.
The Ramsburg Fertilizer Co. Frederick, Md.
Ra-Pid Gro Corp. Dansville, N. Y.
The Rath Packing Co. Waterloo, Iowa
E. Rauh & Sons Fertilizer Co. Indianapolis, Ind.; P. O. Sylvania, Ohio; Chalmers, Ind.; Plymouth, Ind.
Ravel Brothers, Inc. Albuquerque, N. M.
Reading Bone Fertilizer Co. Reading, Pa.
John Reardon & Sons, Cambridge 39, Mass.
Red Star Fertilizer Co. Sulphur Springs, Texas



itrogen

Last year's blueprints are reality. We're now supplying the fertilizer industry with twice as much nitrogen as before from CSC's big Dixie Plant in Louisiana.

Completion of this important project firmly establishes CSC, for the years ahead, as one of the leading, basic, big-tonnage sources of nitrogen *in its three key forms*.

The fertilizer trade is now taking all the N we can make—Anhydrous Ammonia, Nitrogen Solutions, and Ammonium Nitrate.

CSC Ammonium Nitrate is a new, crystalline product made by the unique Stengel Process, developed in CSC's research laboratories. Sold under the brand name, CSC Ammonium Nitrate Fertilizer, it is going to the farmer thru leading fertilizer manufacturers.

AGRICULTURAL CHEMICALS DIVISION

COMMERCIAL SOLVENTS CORPORATION

260 Madison Avenue, New York 16, N. Y.

ANHYDROUS AMMONIA • NITROGEN SOLUTIONS • AMMONIUM NITRATE
BENZENE HEXACHLORIDE • DILAN® • ETHYL FORMATE • METALDEHYDE

Redwine Bros., Fayetteville, Ga.
Redwine Bros. Fertilizer, Tyrone, Ga.
Reed and Perrine, Inc., Tennent, N. J.
The Refuge Cotton Oil Co., Columbus, Miss.
Robert A. Reichard, Inc., Allentown, Pa.
The Reliance Fertilizer Co., Savannah, Ga.
Reliance Fertilizer & Lime Corp., Norfolk, Va.
Reliance Guano Co., Inc., Whiteville, N. C.
Rentz & Felder, Bamberg, S. C.
Richmond Guano Co., Richmond, Va.
Ricks Fertilizer Co., Mount Olive, N. C.
Ridge Fertilizer Co., Lake Wales, Fla.; Johnston, S. C.
Riverside Fertilizer Factory, Marks, Miss.
Riverside Fertilizer Works, Riverside, Calif.
Roanoke Guano Co., Roanoke, Ala.
Robeson Mfg. Co., Lumberton, N. C.
Robertson Chem. Corp., Norfolk, Va. Main office. Plants: Raleigh, N. C.; Statesville, N. C.; Wilmington, N. C.; South Hill, Va.
Robertson Fertilizer Co., Clayton, Ala.
Robinson Fertilizer Co., Orange, Calif.
Roche Mfg. Co., Dublin, Ga.
The Rogers & Hubbard Co., Portland, Conn.
Rose Mfg. Co., Beacon, N. Y.
Rose City Cotton Oil Mill, Little Rock, Ark.
Ross Fertilizer Co., Clinton, N. C.
Roux Feed Mills, Sharon, Pa.
Rowe Warehouse & Fertilizer Co., Athens, Ga.
Rowland & Gordon Co., Plainview, Texas
Roxboro Chemical Corp., Roxboro, N. C.
N. Roy and Son, So., Attleboro, Mass.
F. S. Royster Guano Co., Norfolk, Va. General Office. Plants: Bessemer, Ala.; Montgomery, Ala.; Atlanta, Ga.; Macon, Ga.; Indianapolis, Ind.; Baltimore, Md.; Jackson, Miss.; Lyons, N. Y.; Charlotte, N. C.; Tarboro, N. C.; Wilmington, N. C.; Toledo, Ohio; Charleston, S. C.; Columbia, S. C.; Spartanburg, S. C.; Buell (Norfolk) Va.; Lynchburg, Va.; S. Norfolk, Va.; Madison, Wisc.
Ruhm Phos. and Chemical Co., Columbia, Tenn.
Ruston Oil Mills & Fertilizer Co., Ruston, La.
Russell Fertilizer Works, Union Hill, N. Y.
Rutledge Mfg. Co., Rutledge, Ga.

S

Sacramento Valley Milling Co., Glenn, Calif.
Safe-Way Fertilizer Co., Decatur, Ill.
Sagadahoc Fertilizer Co., Inc., Bowdoinham, Maine
Salley Gin & Fertilizer Co., Salley, S. C.
Salmon By-Products Co., Inc., Ketchikan, Alaska
Keys Sanders Fertilizer Co., Gaffney, S. C.
Sand Mountain Fertilizer Co., Attala, Ala.
San Francisco Chemical Co., Sage, Wyo.
San Jacinto Chemical Corp., Houston, Texas
San Miguel Fertilizer Corp., San Juan, P. R.
Santee Guano Co., Greeleyville, S. C.
Sapona Mills, Inc., Sanford, N. C.
Schaffner Bros. Co., Erie, Pa.
Schrock Fertilizer Service Div., Schrock Bros. Co., Congerville, Ill.
O. M. Scott and Sons Co., Ridgefield, N. J.
O. M. Scott & Sons Co., Marysville, Ohio
Scriven Oil Mill, Sylvania, Ga.
Seaboard Phosphate Co., Dunnellon, Fla.
Senesac Soil Service, Fowler, Ind.
Service Fertilizer Corp., Henry, Ill.
Shea Chemical Corp., Baltimore, Md. Plants: Adams, Mass.; Columbia, Tenn.
Shell Chemical Corp., New York, N. Y. Head Office. Plants: Pittsburgh, Calif.; San Francisco, Calif.
Shellman Home Mixture Guano Co., Shellman, Ga.
Shepard Fertilizer Co., Moultrie, Ga.
Shields Co., Scotland Neck, N. C.
M. L. Shoemaker Co., Philadelphia, Pa.
Shore Fertilizer Co., Plant City, Fla.
Shreveport Fertilizer Works, Shreveport, La.
Shur-Crop Corp., Monroe, Wash.
Simplot Soilbuilders—Div. J. R. Simplot Co., Twin Falls, Idaho Head Office. Plants: Swink, Colo.; Greeley, Colo.; Caldwell, Idaho; Idaho Falls, Idaho; Pocatello, Idaho; Klamath Falls, Oreg.; Walla Walla, Wash.
Simpson & Co., Colorado Springs, Colo.
Singletary Farms, Blakely, Ga.
J. F. Sloan Co., Salinas, Calif.
The Smith Agric. Chemical Co., Columbus, Ohio Head Office. Plants: Indianapolis, Ind.; Holland Mich.; Saginaw, Mich.
Smith-Douglas Co., Inc., Norfolk, Va.; Selbyville, Del.; Plant City, Fla.; Streator, Ill.; Albert Lea, Minn.; Kingston, N. C.; Wilmington, N. C.; Houston, Texas; Danville, Va.
Smith Fertilizer Co., Statesboro, Ga.
Smith Fertilizer Co., Williston, S. C.
Smith-Rowland Co., Norfolk, Va.—Plant: Granite City, Ill.
The C. D. Smith Co., Agric. Div., Grand Junction, Colo.
C. O. Smith Guano Co., Moultrie, Ga.
Smoky Mountains Fertilizer Co., Waynesville, N. C.
Snyder Chemical Co., Inc., Hutchinson, Kansas; Topeka, Kansas
The Southern Cotton Oil Co., New Orleans, La. Main Office. Plants: Andalusia, Ala.; Birmingham, Ala.; Cullman, Ala.; Decatur, Ala.; Huntsville, Ala.; Lafayette, Ala.; Montgomery, Ala.; Rockford, Ala.; Sheffield, Ala.; Talladega, Ala.; Tuscaloosa, Ala.; Little Rock, Ark.; Newport, Ark.; Pensacola, Fla.; Athens, Ga.; Cartersville, Ga.; Columbus, Ga.; Cordele, Ga.; Cordele, Ga.; Dawson, Ga.; Dublin, Ga.; Ft. Gaines, Ga.; Lavonia, Ga.; McRae, Ga.; Macon, Ga.; Rome, Ga.; Savannah, Ga.; Tifton, Ga.; Valdosta, Ga.; Warrenton, Ga.; Natchitoches, La.; Greenville, Miss.; Vicksburg, Miss.; Davidson, N. C.; Fayetteville, N. C.; Gibson, N. C.; Goldsboro, N. C.; Hertford, N. C.; Monroe, N. C.; Rocky Mount, N. C.; Selma, N. C.; Shelby, N. C.; Wadesboro, N. C.; Weldon, N. C.; Wilson, N. C.; Allendale, S. C.; Abbeville, S. C.; Bennettsville, S. C.; Camden, S. C.; Chester, S. C.; Columbia, S. C.; Darlington, S. C.; Dillon, S. C.; Florence, S. C.; Greenville, S. C.; Hones Path, S. C.; Laurens, S. C.; Newberry, S. C.; Orangeburg, S. C.; Spartanburg, S. C.; Sumter, S. C.; Memphis, Tenn.
Soil Builders, Inc., Dunnellon, Fla.
Soil Chemical Products Corp., Los Angeles, Calif.
Soil Service, Denton, Md.
Soilife, Inc., Boise, Idaho
Solitone Fertilizer Co., Lincoln, Nebr.
Soluble Plant Nutrients Co., Azusa, Calif.; Augusta, Kansas
Solway Chemicals, Ltd., Whitehaven, Cumberland, England
Soperton Guano Co., Soperton, Ga.
South Jersey Farmers Exchange, Woodstown, N. J.
South Lake Fertilizer Works, (Div. South Lake Apopka Citrus Growers) Oakland, Calif.
Southern Agricultural Fertilizer Co., Clarksdale, Miss.
Sou. Calif. Fertilizer Co., Los Angeles, Calif.
Southern Fertilizer & Chemical Co., Sivannah, Ga. Head Office. Plants: Atlanta, Ga.; Charleston, S. C.; Roebuck, S. C.
Southern Fla. Fertilizer Co., Goulds, Fla.
Southern Guano Co., Winder, Ga.
Southern Oregon Sales, Inc., Medford, Oreg.

Southern States Phos. & Fertilizer Co., Savannah, Ga.
Southwest Fertilizer and Chemical Co., Anthony, New Mexico; Clint, Texas; El Paso, Texas; Pecos, Texas
Southwest Chemical Co., Inc., McAllen, Texas
Southwest Co-Operative Wholesale, Phoenix, Ariz.
Southwest Potash Corp., Carlsbad, N. M.
Southwest Supply Co., Glendale, Ariz.
Southwest Virginia Cooperative, Inc., Bristol, Va.
Southwestern Supply Co. (Div. Wilbur-Ellis Co.), Chula Vista, Calif.
Spencer Chemical Co., Kansas City, Mo. Exec. & Gen. Sales Office, Plant: Pittsburg, Kans.
Spokane Portland Cement Co., Spokane 1, Wash.
Springfield Rendering Co., Springfield 1, Mass.
The Stadler Fertilizer Co., Cleveland, Ohio
Standard Chemical Co., Troy, Ala.
Standard Fertilizer Co., Meigs, Ga.
Stanton Co., Holland, Mich.
Staple Cotton Cooperative Assoc., Greenwood, Miss.
Star Fish & Bone Fertilizer Co., Bridgeton, N. J.
Stauffer Chemical Co., Pacific N. W. Div., N. Portland, Oreg. Head Office. Plants: Richmond, Calif.; San Francisco, Calif.; Vernon, Calif.; Tacoma, Wash.
E. B. Stone and Son, Salinas, Calif.
William Stone Sons, Ltd., Ingersoll, Ont., Canada
R. F. Strickland Co., Concord, Ga.
Summers Fertilizer Co., Inc., Baltimore, Md. Head Office. Plants: Bangor, Maine; Calais, Maine; Caribou, Maine; Houlton, Maine; Mars Hill, Maine; Sandy Point, (Stockton) Maine; Grand Forks, N. D.; Sioux Falls, S. D.; Saint Stephen, N. B., Canada
Sumter Fertilizer Mfg. Co., Inc., Sumter, S. C.
Sunland Industries, Inc., Fresno, Calif.
Sunset Fertilizer Co., Inc., Bartlesville, Okla.
Superior Fertilizer Co., Peterman, Ala.
Superior Fertilizer Co., Tampa, Fla.
Superior Phos. Co., Dunnellon, Fla.
Super A Fertilizer Works, Inc., Mayaguez, P. R.
Supreme Feed & Fertilizer Co., Philadelphia, Mississippi
Swack Fertilizer Co., Du Bois, Pa.
Swift & Co., Plant Food Div., National Stock Yards, Ill. Main Office. Plants: Hayward, Calif.; Los Angeles, Calif.; Bartow, Fla.; Winter Haven, Fla.; Albany, Ga.; Atlanta, Ga.; LaGrange, Ga.; Savannah, Ga.; Calumet City, Ill.; Union Stock Yards, Chicago, Ill.; Mason City, Iowa; Harvey, La.; Shreveport, La.; Baltimore 26, Md.; Boston, Mass.; Omaha, Neb.; New York, N. Y.; Greensboro, N. C.; Wilmington, N. C.; Cleveland 11, Ohio; Greenville, Ohio; North Portland, Oreg.; Columbia, S. C.; Houston, Texas; Norfolk, Va.; Madison, Wisc.; Toronto, Ont., Canada
Sylacauga Fertilizer Co., Sylacauga, Ala.
Syracuse Rendering Co., Syracuse, N. Y.

T

T & K Fertilizer Co., Union City, Tenn.
Tank Fertilizers, Inc., Brawley, Calif.
John Taylor Fertilizer Co., Sacramento, Calif.
T. F. Taylor Fertilizer Works, Moultrie, Ga.
Temple Cotton Oil Co., Little Rock, Ark. (owned by Mathieson Chem. Corp.)
10 Elements Mineral Plant Food, Miami, Fla.
Tennessee Corp., New York, N. Y. General Office. Plants: Tuscaloosa, Ala.; Cedartown, Ga.; East Point, Ga.; Gainesville, Ga.; New Albany, Ind.; Lockland, Ohio
Tennessee Farmers Cooperative, Nashville, Tenn.; La Vergne, Tenn.
Tennessee Plant Food Co., Clarksville, Tenn.
Tennessee Valley Cooperatives, Decatur, Ala.
The Terre Co., Rochelle Park, N. J.; Totowa, N. J.

Terra Food Fertilizer Co., El Monte, Calif.
Texas Farm Products Co., Nacogdoches, Texas
Texas Liquid Fertilizer Co., Inc., La Feria, Texas
Thomas & Co., Gaithersburg, Md.
I. P. Thomas & Son Co., Camden, N. J. General Office. Plants: Paulsboro, N. J.; Huntington Sta., L. I., N. Y.
Thomasville Fertilizer Co., Thomasville, Ga.
Thurston Chemical Co., Joplin, Mo. Plants: Atlas, Mo.; Trenton, Mo.; Tulsa, Okla.; Lawrence, Kansas
Tobacco By-Products and Chem. Corp., Richmond, Va.; Montgomery, Ala.; Louisville, Ky.; Waco, Texas
W. B. Tighman Co., Inc., Salisbury, Md. Head Office. Plant: Pocomoke City, Md.
Toledo Div. Sewage Disposal, Toledo, Ohio
Toney Bros., Doreun, Ga.
Town & Country Gas Co., Fresno, Calif.
Trenton Bone Fertilizer Co., Trenton, N. J.
The Triangle Co., Salinas, Calif.
Tri-State Chemical Co., Webb City, Mo.
Tri-State Milling Co., Rapid City, S. D.
Trueman Fertilizer Co., Jacksonville, Fla.
F. W. Tunnell & Co., Inc., Phila., Pa.
Turner and Alexander, Inc., McDonough, Ga.
Tuskegee Oil & Fertilizer Co., Tuskegee, Ala.
Tyler Fertilizer Co., Tyler, Texas
Tyler Grain & Fertilizer Co., Weilersville, Ohio; Wooster, Ohio.
J. A. Tyler and Sons, Wagener, S. C.

U

Union Fertilizer Co., Cullman, Ala.
Union Fertilizer Corp., Hanover, Pa.
Union Oil Co., Bunkie, La.
Union Oil Mills, Union, S. C.
United By-Products Co., Hackettstown, N. J.
United Cooperatives of Ontario, Thamesville & Toronto, Ont., Canada
United Fertilizer Co., Carrollville, Wisc.
U. S. Phosphoric Products Div. Tenn. Corp., Tampa, Fla.
United Sulphur Co., Torrance, Calif.
U. S. Potash Co., Inc., Carlsbad, N. M.
United States Steel Corp., Pittsburgh 30, Pa.
Universal Fertilizer Co., Puente, Calif.
Utah Idaho Sugar Co., Idaho Falls, Idaho

V

E. S. Valliant & Son, Inc., Centerville, Md.
Valliant Fertilizer Co., Laurel, Del.
Valley Fertilizer & Chem. Co., Inc., Mt. Jackson, Va.
Valley Fertilizer Co., Aliceville, Ala.
Valley Fertilizer Works, Lindsay, Calif.
Valley Wholesale and Warehouse Co., Ontario, Oreg.
Valli-Orr Fertilizer Co., Clovis, Calif.
The Vance Co., Inc., Chilhowie, Va.
H. H. Van Gorden & Sons, Neillsville, Wisc.
Victor Chemical Works, Chicago, Ill.
Victor Fertilizer Co., Chester, S. C.
Vidalia Chemical Co., Vidalia, Ga.
Vidette Fertilizer Co., Louisville, Ga.
Villa Rica Oil Mills, Inc., Villa Rica, Ga.
Va-Carolina Chemical Corp. General Office Richmond, Va. Plants: Birmingham, Ala.; Dothan, Ala.; Mobile, Ala.; Montgomery, Ala.; Waylam, Ala.; Little Rock, Ark.; Jacksonville, Fla.; Nichols, Fla.; Orlando, Fla.; Albany, Ga.; Atlanta, Ga.; Augusta, Ga.; Rome, Ga.; Savannah, Ga.; E. St. Louis, Ill.; Ft. Wayne, Ind.

Dubuque, Iowa; Shreveport, La.; Baltimore, Md.; Jackson, Miss.; Carteret, N. J.; Charlotte, N. C.; Durham, N. C.; Greensboro, N. C.; Greenville, N. C.; New Bern, N. C.; Selma, N. C.; Wadesboro, N. C.; Wilmington, N. C.; Cincinnati, Ohio; St. Bernard (Cincinnati) Ohio; Charleston, S. C.; Columbia, S. C.; Greenville, S. C.; Memphis, Tenn.; Mt. Pleasant, Tenn.; Lynchburg, Va.; Norfolk, Va.; Petersburg, Va. Portsmouth, Va.

W

Wadesboro Fertilizer Co., Wadesboro, N. C.
Waldo Fertilizer Works, Waldo, Ark.
Walker Fertilizer Co., Orlando, Fla.
Wallace Guano Co., Smithfield, N. C.
I. G. Wallace and Son, (Near Charlotte, N. C.) Head Office, Plant: Matthews, S. C.
Walla Walla Meat & Cold Storage Co., Walla Walla, Wash.
Oscar F. Warner Landscape Forester, Waterbury, Conn.
Warren Cotton & Fertilizer Co., Warrenton, N. C.
Warren Cotton Oil & Mfg. Co., Warren, Ark.
Warrior Fertilizer Co., Northport, Ala.
Wasatch Chemical Co., Salt Lake City, Utah
Washington Co-Operative Farmers Assn., Seattle, Wash.
Washington Liquid Fertilizer Co., Wapato, Wash.
Washington Organic Fertilizer Co., Yakima, Wash.
Van Waters & Rogers, Inc., Portland, Oreg.
Waverly Fertilizer Works, Waverly, Fla.
Wayne-Bush Feed Co., Ft. Wayne, Ind.
Weaver Fertilizer Co., Inc., Winston-Salem, N. C.
Weaver Fertilizer Co., Inc., Norfolk, Va.
The Weaver Tankage Corp., Norfolk, Va.
Webfoot Fertilizer Co., Inc., Portland, Oreg.
G. L. Webster Co., Cherriton, Va.
Wedgeworth's, Inc., Belle Glade, Fla.
Weil's Fertilizer Works, Inc., Goldsboro, N. C.
Welch Chemical Div. of The Davison Chemical Corp., Columbus, Ohio
Welcome Agric. Chemical Co., Welcome, Minn.
Wells and Wade, Inc., Wenatchee, Wash.
Western Delta Chemical Co., Walnut Grove, Calif.
Western Farm Chemical Co., Woodland, Calif.
Western Fertilizer Co., Muleshoe, Texas
Westminster Fertilizer Co., Westminster, Md.
Westminster Gin & Fertilizer Co., Westminster, S. C.
West Coast Fertilizer Co., Tampa, Fla.
West Tenn. Tankage Co., Union City, Tenn.
Westside Fertilizer Co., Huron, Calif.
Westside Products Co., Newman, Calif.
Wheeler Fertilizer Co., Oviedo, Fla.
Whitehead and Gholston, Comer, Ga.
Wichita Fertilizers, Inc., Wichita, Kansas.
Wilbur-Ellis Co., Southwestern Supply Co. Division, Los Angeles 15, Calif. Plants: San Francisco, Calif.; Portland, Oreg.; Seattle, Wash.
Wilde Farm Supply Co., Inc., Vineland, N. J.
Williston Fertilizer Works, Williston, S. C.
Wilmington Fertilizer Co., Wilmington, N. C.
Andrew Wilson, Inc., Springfield, N. J.
Wilson & Co., Chicago, Ill.
Wilson & Toomer Fertilizer Co., Jacksonville, Fla.
Wisconsin Farmco Service Cooperative, Madison 1, Wis.
Plants: Antigo, Wis.; Green Bay, Wis.; Prairie du Chein, Wis.; Whitewater, Wis.
Wisconsin Plant Food, Inc., Watertown, Wis.
Witts Fertilizer Works, Ltd., Norwich, Ont., Canada
Woodburn Feed and Supply Co., Woodburn, Oreg.
Wood Chemical Co., Lubbock, Texas
F. H. Woodruff & Sons, Inc., Milford, Conn.
The Woodruff Fertilizer Works, Inc., North Haven, Conn.



CHEMICO

SERVICES TO THE FERTILIZER INDUSTRY

Chemico offers a complete engineering and contracting service to the fertilizer industry . . . ranging from the design and construction of complete fertilizer works to furnishing small individual units and auxiliary plants of specialized nature.

- COMPLETE FERTILIZER WORKS
- SUPERPHOSPHATE AND DOUBLE SUPERPHOSPHATE PLANTS
- PEASE-ANTHONY SCRUBBERS FOR DUST AND FUME ELIMINATION
- CONTACT SULFURIC ACID PLANTS
- SYNTHETIC AMMONIA PLANTS
- UREA PLANTS
- AMMONIA OXIDATION UNITS FOR CHAMBER ACID PLANTS
- AMMONIA STORAGE AND MIXING UNITS
- AMMONIUM SULFATE AND AMMONIUM NITRATE PLANTS
- PHOSPHORIC ACID CONCENTRATORS
- EXTENSIONS AND MODERNIZATION OF EXISTING PLANTS

Chemico recommendations, designs and installations are backed by 38 years of specialized experience in building heavy chemical plants. More than 900 successful installations are your assurance of complete satisfaction.

CHEMICAL CONSTRUCTION CORPORATION

A Unit of American Cyanamid Company

488 MADISON AVE., NEW YORK 22, N. Y.
Cable Address: Chemiconst, New York

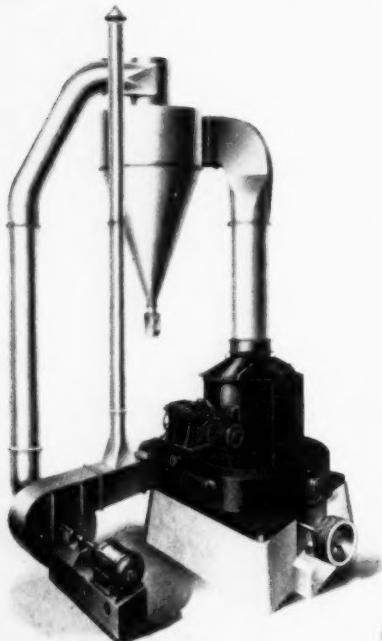
TECHNICAL REPRESENTATIVES: CYANAMID PRODUCTS LTD., LONDON
CHEMICAL CONSTRUCTION (INTER-AMERICAN) LTD., TORONTO
SOUTH AFRICAN CYANAMID (PTY) LTD., JOHANNESBURG

CD-178



...STAR PERFORMER in Modern Plants
for the Economical production of
PHOSPHATE PRODUCTS

(Trade-mark)



RAYMOND

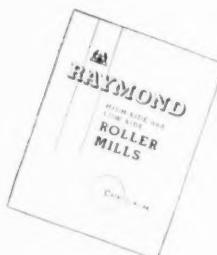
ROLLER MILL

For complete details, write
for Raymond Catalog No. 69

Over a half-century of leadership shows the consistent fine performance of the Raymond Roller Mill in handling all types of phosphate deposits and producing uniformly pulverized phosphate rock for acidulation and direct application.

Important advantages include simplicity of installation to meet existing plant layout, ease of fineness adjustment and consistent finished products, automatic control and dustfree operation, as well as low maintenance and power costs, which result in record economies in production, year after year.

Raymond Roller Mills are available in a wide range of capacities up to 30 tons or more per hour.



COMBUSTION ENGINEERING, INC.

Raymond Division

1317 North Branch Street
Chicago 22, Illinois

Sales Offices
in Principal Cities

Woodrow Fertilizer Co. Oswego, S. C.

The Woodville Lime Products Co., Toledo, Ohio Main Office. Plant: Woodville, Ohio.

A. S. Wooley Co., Inc., Seaford, Del.

Worchester Fertilizer Co., Snowhill, Md.

Chas. P. Wray & Co., Ridgeway, S. C.

Wyocena Farmers Co-Operative Co., Wyocena, Wise.

Y-Z

Yakima Valley Spray Co., Yakima, Wash.

Yamada Co., Gardena, Calif.

Lewis Yoder Co., Inc., Nampa, Idaho

York Stone & Supply Co., York, Pa.

Gordon Young, Ltd., Toronto, Ont., Canada

Yuba City Mills, Yuba City, Calif.

Zebulon Ginning & Fertilizer Co., Zebulon, Ga.

DIRECTORY FERTILIZER MANUFACTURERS

ALABAMA

ALICEVILLE

C—Valley Fert. Co., Corp.

J. B. Cunningham, Pres.; J. L. Parker, Vice-Pres.; John E. Lee, Treas.; R. J. Kirksey, Sec.; John S. Park, Plant Mgr.; J. B. Cunningham, Pur. Agent. 12,000 tons.

ANDALUSIA

CFIJ—Covington Fert. Company

C. F. Booth, Pres.; Lamar Cantelou, Vice Pres.; J. D. Law, Jr., Sec.-Treas.; T. B. Brown, Sales Mgr.; C. F. Booth, Plant Mgr., Pesticide Div. 3000 expected. (Facilities for 8000).

D—The Southern Cotton Oil Company

Main Office, New Orleans, La. J. E. Cofield, Mgr. Andalusia

ATTALLA

C—Sand Mountain Fertilizer Co.

T. W. Allen, Pres. & Mgr.; S. W. Legat, Sec. & Treas.; Robt. H. Johnson, Asst. Mgr. 25,000 tons. R. S. Astin, Supt.

BESSEMER

B—F. S. Royster Guano Company

C. F. Burroughs, President; W. T. Wright, F. S. Moore, F. S. Royster, Jr., Vice-Presidents; C. F. Burroughs, Jr., Treas.; Shepard R. Cooke, Sec.; J. G. Bruce, Jr., Supt. Sales Office, Montgomery. J. R. Pratt, Mgr. 40,000 tons.

BIRMINGHAM

C—Armour Fertilizer Works

A. G. Henry, Div. Mgr., General Office, Atlanta, Ga.

C—The Southern Cotton Oil Company

Main Office, New Orleans, La.; S. F. Hosey, Mgr.

A—Virginia-Carolina Chemical Corp.

Birmingham, Ala. (Factory and Sales Office.) General Offices Richmond, Va.

If any names have been omitted, either inadvertently or through lack of information from the manufacturer, the publishers will be glad to receive corrections for publication in the next issue of Commercial Fertilizer Year Book.

The names in the following pages have been classified and each classification indicated as follows: (Capacity figures supplied by Manufacturers.)

A—Complete plant manufacturing sulphuric acid, superphosphate, and mixed fertilizers.

B—Manufacture superphosphate and mixed fertilizers.

C—Manufacture fertilizer (but not superphosphate or sulphuric acid).

D—Sell complete goods manufactured for us under our brand name.

E—Sell farm equipment (application, distribution, etc.).

F—Offer fertilizer spreader service.

G—Sell Liquid Fertilizer.

H—Apply liquid fertilizer on a custom basis.

I—Formulate pesticides

J—Buy these chemicals already blended.

NOTE: Listings without keys not confirmed

CLANTON

C—Clanton Fertilizer Co., Inc.

C. W. Ballard, Pres.; E. N. Lane, Vice Pres.; H. D. Ballard, Sec. Treas., Purchasing Agent; H. D. Ballard, Prod. Mgr.; C. W. Ballard, Pur. Agent. 15,000 tons.

CLAYTON

C—Robertson Fertilizer Co.

Wm. H. Robertson, Pres., Treas. & Prod. Mgr.; J. H. Knight, Vice-Pres. & Sec.; E. H. Nolin, Sup't. Capacity 1,000 tons.

CULLMAN

B—International Minerals & Chemical Corp.

Dry Mixing Plant. C. L. Stewart, Mgr.

D—The Southern Cotton Oil Company

Main Office, New Orleans, La.; District Mgr., F. W. Hurston; District Office, Cullman, Ala. Manufacture and sales at following points: Andalusia, Birmingham, Cullman, Decatur, Huntsville, Lafayette, Montgomery, Rockford, Sheffield, Talladega, Tuscaloosa, Pensacola, Fla., Columbus, Miss.

Union Fertilizer Co.

C. L. Stewart, Mgr.

DADEVILLE

CDFHJ—Dadeville Fertilizer & Gin Co.

C. T. Cox, President; C. T. Cox, Jr., Vice-Pres.; Barnes M. Cox, Sec. & Treas. 10,000 tons.

DECATUR

C—Decatur Fertilizer Company

A. A. Jones, Pres.; J. H. Jones, Vice Pres.; A. A. Jones, Jr., Sec.-Treas.; Earnest McAbee, Supt. 10,000 tons.

C—The Southern Cotton Oil Company

Main Office, New Orleans, La. T. M. Harvey, Mgr.

CJ—Tennessee Valley Cooperatives

G. L. Braly, President; R. T. Kermichan, Vice Pres.; E. P. Garrett, Sec.-Treas., Purchasing Agent; Geo. B. Hughston, Prod. Mgr.; R. C. Bibb, Plant Mgr. 30,000 tons.

DOTHAN

C—Dothan Guano Company

A. A. Morris, General Mgr. Partnership composed of W. D. Malone, A. A. Morris; A. A. Morris, General Mgr.; H. D. Meeks, Plant Mgr. 20,000 tons.

A—The Home Guano Company

P. O. Box 577 Arthur Pelzer, Pres.; J. Ross Hanahan, Vice-Pres.; M. L. Hanahan, Jr., Treas. Gen. Mgr.; B. M. Hanahan, Sec.; R. C. Geiger, Supt. 30,000 tons.

A—Virginia-Carolina Chemical Corp.

KEY: A—Complete plant; B—Superphosphate, mixed fertilizers; C—Mixed fertilizer only; D—Sell goods manufactured for them;

Dothan, Ala. (Factory.)
General Offices: Richmond, Va.

EUFALIA

CFJ—Eufaula Cotton Oil Company
Orange & Barbour St.; M. H. Conner, Pres.; L. L. Conner, Vice Pres.; H. H. Conner, Jr., Mgr.; H. C. Conner, Sec.-Treas.; Rex Metcalf, Supt. 10,000 tons.

FAYETTE

C—Fayette Mill, Gin & Ice Company, Inc.
Mrs. A. M. Grimsley, Pres.; A. M. Grimsley, Jr., Vice-Pres.; J. J. Taylor, Sec.-Treas. Purchasing Agent; Malden Taylor, Prod. Mgr. 3,500 tons.

FLORENCE

B—International Minerals & Chemical Corp.
Sales Office, Plant, B. V. Bender, Dist. Sales Mgr.; E. N. James, Supt.

FOLEY

C—People's Fertilizer Company
W. R. Stuart, President; J. R. Harding, Vice-President. R. C. Harding, Jr., Asst. Treas. 15,000 tons.

GREENVILLE

CF—Greenville Plantfood Co.
R. B. Anderson, Pres.; Andrusia, Ala., E. H. Anderson & J. A. Anderson Vice Pres., Hartford, Ala. Julian Maddox, Sec-Treas. & Gen. Mgr. Luverne, Ala. K. B. Maddox, Plant Mgr. Greenville, Ala. T. E. Rainer, Greenville, Ala. Plant Supt. Julian Maddox, Pur. Agent. Capacity 15,000

HEADLAND

C—Esp' Fertilizer Co., Inc.
M. W. Espy, Pres.; F. E. Sidney, Vice-Pres.; A. S. Hodges, Sec-Treas.; E. M. Royals, Prod. Mgr.; C. Cunningham, Supt.; M. W. Espy, Prod. Mgr. 10,000 tons.

CF—Home Fertilizer & Cotton Oil Co., Inc.
E. R. Solomon, Pres. & Mgr.; Elsie B. Solomon, Vice-Pres. & Treas.; R. S. Shelley, Jr., Asst. Mgr.; T. L. Killingsworth, Plant Mgr.; E. R. Solomon, Pur. Agent. 10,000 tons.

HUNTSVILLE

D—The Southern Cotton Oil Company
Main Office, New Orleans, La. Phillip Stolzer, Mgr.

HURTSBORO

CF—Hurstsboro Fertilizer Company
Owned and operated by S. B. Williams. 2,000 tons.

LAFAYETTE

D—The Southern Cotton Oil Company
Main Office, New Orleans, La. G. P. Allen, Sr., Mgr.

MOBILE

CH—McMillan and Harrison Fertilizer Co.
Partnership S. K. Smith, Horace L. Long; S. K. Smith, Purchasing Agent. 10,000 tons.

A—Virginia-Carolina Chemical Corp.
Mobile, Ala. (Factory) General Offices: Richmond, Va.

MONTGOMERY

C—Alabama Fertilizer Company
John R. Hudson, Pres.; Mark J. Bridges, Mgr. 15,000 tons.

A—The American Agricultural Chemical Company
Sales Office and Factory, P. O. Box 911, G St. J. Turner, Mgr.; T. D. Conner, Supt.

C—Armour Fertilizer Works

R. A. Ellington, Div. Mgr.; General Office, Atlanta, Ga.

B—Capital Fertilizer Company

Sales Office and Plant, Montgomery, Ala.; E. T. Spidle, Gen. Mgr. 50,000 tons. General Office, 61 Broadway, New York, N. Y.

B—International Minerals & Chemical Corp.

P. O. Box 829. Sales office, Plant. C. H. Elrod, Area Mgr.; Evans Vaughan, Sales Mgr.; J. B. Demby, Supt.

B—F. S. Royster Guano Company

C. F. Burroughs, Pres.; W. T. Wright, F. S. Moore, F. S. Royster, Jr., Vice-Presidents; C. F. Burroughs, Jr., Treas.; Sheppard R. Cooke, Sec. D. L. Thames, Supt.; J. R. Pratt, Mgr. Sales Montgomery office. 40,000 tons.

C—The Southern Cotton Oil Company

Main Office, New Orleans, La. G. Tatum, Jr., Mgr.

E—Tobacco By-Products & Chemical Corporation

(Factory and Sales Office, Gen. Office, Richmond, Va.)

B—Virginia-Carolina Chemical Corp.

Montgomery, Ala. (Sales Office and Factory) General Offices: Richmond, Va.

NORTHPORT

C—Warrior Fertilizer Company
3008 12th St.; H. H. Maxwell, owner. Mrs. Ruby B. Maxwell, Co-partner, with H. H. Maxwell, but not active. 850 tons.

OPELIKA

CDJF—Alabama Oil & Guano Company

C. M. Jernigan, Pres.; Jno. J. Banks, Vice-Pres.; Chas. H. Jernigan, Treas.; John T. Dorsey, Sec. Wm. H. Knight. 10,000 tons annually.

CDJ—Piedmont Fertilizer Company, Inc.

E. F. Jackson, Pres. & Mgr.; F. P. Jackson, Sec.; H. C. Jackson, Treas. & Plant Supt. 10,000 tons.

PETERMAN

CFGHJ—Peterman Agricultural Co.
P. S. Jackson, Pres.; J. F. Nettles, Vice-Pres.; E. W. Colgin, Treas. and Sec.; J. F. Nettles, Pur. Agent. 8,000 tons.

CEJ—Superior Fertilizer Co.

P. S. Jackson, Pres.; J. F. Nettles, Vice-Pres.; Glenn Helton, Plant Mgr.; J. F. Nettles, Prod. Mgr. 10,000 tons.

PHENIX CITY

ACDFJ—Chavala Cooperative, Inc.
P. O. Box 125. K. M. Mitchell, Mgr. & Pur. Agent; E. G. Adamson, Plant Mgr. 10,000 tons.

ROANOKE

B—Roanoke Guano Company

J. H. Owens, Pres.; W. H. Wright, Vice-Pres.; W. A. Mitchum, Treas.; D. R. Boyd, Sec. 20,000 to 25,000 tons.

ROCKFORD

D—The Southern Cotton Oil Company

Main Office, New Orleans, La. J. A. Bice, Mgr.

SELMA

C—Central Farmers Co-Op., Inc.
Box 15. B. L. Youngblood, Pres.; S. J. Hardy, Vice-Pres.; J. H. Hain, Treas. and Sec. 20,000 tons. E. B. Johnston, Mgr.; H. A. Paine, Supt.

SHEFFIELD

D—The Southern Cotton Oil Company

Main Office, New Orleans, La. O. J. Underwood, Mgr. Sheffield, Ala.

SYLACAUGA

CDJF—Sylacauga Fertilizer Company

H. A. Parker, Pres., Treas. & Pur. Agent; O. D. Parker, Vice-Pres.; Harry Appleby, Sec.; A. D. Kilgore, Supt.; Bill Nichols, Mgr. Pesticide Div. 20,000 tons.

TALLADEGA

D—The Southern Cotton Oil Company

John F. Davis, Mgr.

TROY

B—Alabama Warehouse Company, Inc.

P. O. Box 527, E. C. Bassett, Pres.; E. F. Dunbar, V. Pres.; G. M. Panhorst, Sec.-Treas. & Mgr.; H. M. Rose, Plant Mgr. 15,000 tons.

A—Standard Chemical Company

Fred C. Broadway, Sec-Treas., and Gen. Mgr.; Frederick Henderson, Vice-Pres.; E. C. Orme, President, Louis T. Head, Vice-Pres.; E. C. Thompson, Supt. 75,000 tons.

TUSCALOOSA

D—The Southern Cotton Oil Company

Main Office, New Orleans, La. H. E. Jeffery, Jr., Mgr. Tuscaloosa, Ala.

C—Tennessee Corp.

E. T. Spidle, Gen. Mgr. (Ala. Div.) 25,000 tons. General office 61 Broadway, New York, N. Y.

TUSCUMBIA

CI—Consumers Bagging Co., Inc.

N. B. Ware, Pres.; N. B. Ware, Jr., Vice Pres.; G. W. Schmidt, Treas.; W. A. Ware, Sec.; N. B. Ware, Jr., Plant Mgr. Pesticide Div. 1,500 tons.

C—Muscle Shoals Chemical Co.

N. B. Ware, Jr., Mgr. 8,000 tons.

TUSKEGEE

CD—Tuskegee Oil & Fertilizer Company

J. L. Youngblood, Sr., Prod. Mgr.; J. O. Youngblood, Jr., Sec.; A. A. Beasley, Plant Mgr. Sec. 10,000 tons.

WETUMPKA

C—Cantelou-Law Gin and Warehouse Company

Partnership: Lamar Cantelou and J. D. Law, Jr., L. C. Thornton, Supt.; J. D. Law, Jr., Prod. Mgr. 4,000 tons.

WYLAN

Virginia-Carolina Chemical Corp.

(Sulphuric Acid Plant Only) Wylam, Ala. General Offices, Richmond, Va.

ARIZONA

GLENDALE

CGI—Arizona Plant Food Corporation

P. O. Box 217. Harvey Bales, Mgr. 20,000 tons.

Agriform Co., Inc.

Wm. C. Rockwell, Plant Mgr. 15,000.

C—Southwest Supply Co.

N. Hart, Mgr.

PHOENIX

DFGH—Arizona Agro-Phosphate Co.

Ned Lewis, Pres.; Wm. Snyder, Vice-pres.; R. J. Laine, Vice-Pres. & Plant Mgr.; Andrew Christensen, Sec. & Treas. 7,900 tons.

CI—Arizona Fertilizers, Inc.

734 E. S. P. Drive. Frank M. Feffer, Sr. Pres.; M. F. Wharton, Sr., Sec-Treas; Frank M. Feffer, Jr. Vice-Pres.; M. F. Wharton, Jr., Asst. Sec.-Treas.; Alvin Van-Kirk, Supt.; M. F. Wharton, Jr. Prod. Mgr.; F. M. Feffer, Jr. Pur. Agent. 50,000 tons.

CGI—Capital Feed & Seed Company

312 S. 15th Ave. Herbert Stein, Pres.; Morton Kleinberg, Vice Pres. & Mgr.; Jas. F. Wolf, Sec. & Pur. Agent; Wm. Keeble, Plant Mgr.; Jas. Wolf, Pur. Agent. 10,000 tons.

CFI—Mathieson Chemical Corporation

Mathieson Agricultural Chemicals Division. (Phoenix plant formerly Fertilizer Division of Tovrea Land & Cattle Co.) Executive offices: Little Rock, Arkansas. L. S. Madsen, Gen. Mgr., Tovrea Division; W. F. Buck, Plant Mgr.

—Phoenix Chemical Co.

Paul E. Cook, Pres.; P. E. Cook, Sr. Vice-Pres., Sec. & Treas. 15,000 tons.

CDGJ—Southwest Co-Operative Wholesale

1821 E. Jackson St.; W. L. Smith, Pres.; C. M. Martin, Vice-Pres.; W. S. Dorman, Treas.; Orval Knox, Sec.; Joe Huron, Supt.; L. S. Madsen, Prod. Mgr. 12,000 to 15,000 tons.

YUMA

CI—Arizona Fertilizers, Inc.

P. O. Box 1309. Frank M. Feffer, Sr., Pres.; M. F. Wharton, Sr., Sec.-Treas.; Charles Lairmore, Office and Plant Mgr. 15,000 tons.

ARKANSAS

BLYTHERVILLE

C—Blytheville Fertilizer Corporation

P. O. Box 619. Charles Rose, Pres.; C. W. Hoover, Vice-Pres.; Doyle Henderson, Sec. & Treas.; A. O. Hallman, Mgr.; H. E. Graham, Jr., Plant Mgr. 18,000 tons.

EL DORADO

CDGJ—El Dorado Fertilizer Company

J. D. Wepfer, G. I. Gilmore, Julia F. Wepfer, Partner; Grace D. Gilmore, Sec.; Felix Harris Supt. 10,000 tons.

Lion Oil Company

Lion Oil Bldg.

T. M. Martin, Pres.; A. F. Reed, Dir. & Vice Pres.; Sales—E. W. Atkinson, Treas.; Jeff Davis, Sec.; J. B. Rogerson, Mgr. of Manufacturing; A. M. Sprague, Supt.; R. E. Meinert, Dir. & Vice Pres.; Purch. 208,000 tons of anhydrous ammonia.

FORT SMITH

C—Fort Smith Cotton Oil Company, Inc.

W. H. Lillard, Pres.; M. E. Vaughan, Exec. Vice-Pres. & Fert. Plant Mgr. in charge; I. W. Dunklin, Vice President.

HELENA

CGJ—Delta Fertilizer Co.

Box 105. Earl Wells, Pres.; Tom Gist, Vice-Pres.; F. L. Enlow, Mgr.; J. J. White, Sec. & Treas.; W. L. Lloyd, Plant Mgr.; J. C. Brody, Gen Mgr. 25,000 tons.

LITTLE ROCK

AEG—Mathieson Chemical Corporation

Mathieson Agricultural Chemicals Division (Arkansas Fert. Division). Executive Offices: S. L. Nevins, Pres.; S. Cottrell, VP & Dir. Oper.; J. Mullen, Jr., Exec. Ass't to Pres.; F. W. Thomas, Dir. Sales; G. A. Wakefield, Gen. Sales Mgr.; C. G. Gran, Mgr. Sales Div.; Dr. A. M. Smith, Chief Agriculturist; J. R. Respass, Controller; J. H. McGalin, Western Region Traffic Mgr.; L. C. Miller, Pur. Agent; E. Hughes, Credit Mgr.; D. B. Dickey, Asst. Mgr. Specialties Dept.; T. W. Crockett, Mgr. Irrig. Dept. Plants located N. Little Rock, Ark., Pasadena, Texas, Phoenix, Ariz., Baltimore, Md., Williamston, N. C., Lebanon, Pa. Ark. Fert. Div.; R. M. Morehead, Div. Sales Mgr.; H. T. Galt, Plant Mgr.

C—Rose City Cotton Oil Mill

A. G. Kahn, Pres.; Mark Valentine, Vice-Pres.; W. F. Bates, Treas.; W. M. Bruce, Jr., Sec.; J. W. Fowler, Supt.; W. F. Bates, Mgr. 10,000 tons.

C—The Southern Cotton Oil Company

Main Office, New Orleans, La. C. M. Smith, Mgr.

C—Temple Cotton Oil Co.

Owned by Mathieson Chem. Corp. Arthur Temple, Pres.; Latone Temple, Vice-Pres. Gen. Mgr.; T. E. Cochran, Sec. & Treas.; T. E. Cochran Mgr. Fertilizer Operations. 10,000 tons.

C—Virginia-Carolina Chemical Corp.

(Factory) General Offices, Richmond, Va.

KEY: A—Complete plant; B—Superphosphate, mixed fertilizers; C—Mixed fertilizer only; D—Sell goods manufactured for them;

MAGNOLIA

C—ARK-LA. Cotton Oil Company

Joe F. Rushton, Pres.; M. E. Peace, Vice-Pres.; W. C. Blewster, Treas.; J. N. Williams, Sec. & Gen. Mgr.; Lee W. Westbrook, Plant Mgr.; J. N. Williams, Pur. Agent & Mgr. Pesticide Div. 10,000 tons.

NEWPORT

D—The Southern Cotton Oil Company

Main Office, New Orleans, La. J. E. Doherty Mgr. Newport, Ark.

NORTH LITTLE ROCK

C—Arkansas Farmers Plant Food Co.

800 Palm St. P. O. Box 112. M. D. Broadfield, Gen. Mgr.; James D. Campbell, Sec.-Treas.; Joe C. Hardin, Pres. Board of Directors; Waldo Frasier, Exec. Vice-Pres. A. N. Gentry, Plant Mgr. 60,000 tons.

AEI—Mathieson Chemical Corporation

Mathieson Agricultural Chemicals Division. (Plants formerly operated by Arkansas Fertilizer Division, Southern Acid & Sulphur Co., and by Temple Cotton Oil Co.) H. T. Galt, Plant Mgr.

PINE BLUFF

CG—Planters Fertilizer & Soybean Co.

Mgr. Geo. H. Dunklin; Asst. Mgr., Wm. H. Dunklin; J. R. Huneycutt, Plant Mgr.; C. L. Dew, Prod. Mgr. 20,000 tons.

TEXARKANA

CG—Farmers Fertilizer Co.

P. O. Box 944
H. J. Trammell, Pres.; J. C. Cabe, Vice-Pres.; C. D. Shallenberger, Sec.-Treas.; F. M. Teague, Plant Mgr. 20,000 tons.

B—International Minerals and Chemical Corp.

Sales Office, Plant. W. Q. Burns, Area Mgr.; H. E. Brooks, Dist. Sales Mgr.; J. W. McElheney, Supt.

WALDO

CJ—Waldo Fertilizer Works

W. H. Ellis, Pres. & Pur. Agent; C. D. Shallenberger, Vice-Pres.; E. H. Felty, Sec. and Treas.; J. W. Williamson, Plant Mgr. 10,000 tons.

WALNUT RIDGE

B—Ark.-Mo. Plant Food Company, Inc.

L. G. Black, Pres.; Rex L. Mor-

gan, Vice Pres. & Sales Mgr.; Earl Day, Sec. & Treas.; Fremont Lange, Plant Mgr. 30,000 tons.

WARREN

C—Warren Cotton Oil & Mfg. Company

E. L. Wise, Pres.; E. F. Paulus, Jr., Vice-Pres.; C. N. Turner, Treas.; C. L. Sharp, Sec.; W. G. Thornton, Prod. Mgr.; E. L. Wise, pur. Agent. 5,000 tons.

CALIFORNIA

ANAHEIM

I—Northern Peat and Guano Co., Inc.

General Office Anaheim, Calif., and Plant (Liquid Fertilizer) Plant (Dry Fertilizer) Ephraim, Utah.
Main Office Rt. 4, Mixing Plant, Ephraim, Utah.
Harry Frandsen, Pres.; Jake W. Anderson, Jas. H. Mikkelsen & R. E. Buell, Vice Presidents; Wm. E. Otis, Jr., Sec.-Treas. & Gen Mgr. 5,000 tons. Mixing plant and base beds located at Ephraim, Utah.

ARLINGTON

IGH—Ahlsweide Fertilizer Co.

P. O. Box 81 Arlington. Karl P. Ahlsweide, Owner. Approx. 3,000 tons.

AZUSA

CFJ—Growers Chemical Supply Company

1025 Crescent Dr. (Plant)
T. A. Barnard, Pres. 10,000 tons.

Soluble Plant Nutrients Co.

J. J. Johnson. 25,000 tons.

BAKERSFIELD

AFC, Inc.

P. O. Box 1642. James Bonaventura-Frank Waterman Partners. Dry and Liquid Fertilizer-Aqua Ammonia conversion plant insecticide.

CJ—International Fertilizer & Feed Co.

P. O. Box 62, Harry Amenta, Pres.; Vincent P. Amenta, Vice-Pres.; Frank Delfino, Treas.; Herman L. Boyd, Sec.; Samuel J. Amenta, Treas.; Vincent P. Amenta, Plant Mgr.; 25,000 tons.

CGJ—Plant Food Corporation

John E. Campbell, Pres.; Morris W. Mothershead, Vice-Pres. & Sec.; James R. Pitchers, 3rd, Treas.; R. M. Pitchers, Vice-Pres.; J. G. Everett, Mgr.

BERKELEY

CDFCI—Pacific Guano Company
1832 2nd St. W. G. Hewitt, Pres.

H. G. Conley, Vice-Pres.; R. J. Crum, Vice-Pres.; G. A. Hall, Sec.; F. W. Doyle, Treas.; P. D. Collins, Supt. W. C. Leigh, Prod. Mgr.; J. G. Hollingshead, Pur. Agent; J. J. Bingham, Pesticide Div. Mgr. Established 1890. 85,000 tons. Dealers in all kinds of raw materials. Manufacture commercial fertilizers (Gaviota Brand), poultry feeds, insecticides (Gravicide Brand) and growers and processors of seeds. Branch at Los Angeles.

BRAWLEY

GH—Tank Fertilizers, Inc.

P. O. Box 176. R. B. Wilson, President; W. F. Aycock, Vice Pres., Treas. & Pur. Agent; Henry Schreck, Plant Mgr.

CALEXICO

C—Imperial Fertilizer & Sulphur Co., Inc.

P. O. Box 592, Mary L. Myers, Pres. & Gen. Mgr.; Geo. M. Bryant, Vice Pres. & Asst. Sec.; T. C. or Mary Myers, Sec., Treas. 25,000 tons.

CAMPBELL

G—Garden Valley Fertilizer Co.

P. O. Box 522. D. L. Watts, Pres.; A. Ferrari, Vice Pres., Sec. & Treas.; 300,000 gallons of Liquid Fertilizer.

CERES

C—C. H. Haas Company

C. H. Haas, President; O. B. Haas, Vice Pres.; John S. Doswald, Plant Mgr. 20,000 tons. Main office: San Francisco, Calif.

CHOWCHILLA

CGI—San Joaquin Cotton Oil Co.

Division of Anderson, Clayton & Co. P. O. Box 865. Fred Stodelman, Los Angeles, Sales Mgr.; V. A. Frizzell, Chowchilla, Mgr. Fert. Div. 50,000 tons.

CHULA VISTA

C—General Fert. & Supply Company

Jno. N. Williams, Pres.; Walter L. Steele, Vice-Pres.; R. K. Williams, Jr., Sec. & Treas.; P. F. Edmundson, Supt.; J. N. Williams, Prod. Mgr. 5,000 tons Liquid Fertilizer. New dry mixer now in operation.

Southwestern Supply Co.

(Division of Wilbur-Ellis Co.)
696 Naples St., Fred Nason, Manager.

CLOVIS

G—Valli-Orz Fert. Co.

John Oliver, Pres. & Treas.; Kenneth Cexton, Vice-Pres. & Sec. 100,000 Gallons Liquid Fertilizer.

CORCORAN

GH—H & W Chemicals

P. O. Box 727. Herbert R. Hirsch, Lois Hirsch & W. K. Wallace, Owners. 7,500 tons Liquid Fertilizer.

CUPERTINO

10930 N. Highway 9. Paul A. Mariani, Jr.

DEL MAR

G—Goodrich Fert. Co.

P. O. Box 566. Van A. Goodrich, Owner—Frances A. Goodrich, (Partner)

DOWNEY

CDJ—Downey Fertilizer Co.

9447 E. Imperial Hwy. Ben Mooschekian, Sam Mooschekian, Roy Mooschekian, Ted Mooschekian, Artie Babajan, Arnold Babajan, Chas. Monoogian, Fred Nenmoede, Partnership. Roy Mooschekian, Plant Mgr. Chas. Monoogian, Pur. Agent. 20,000 tons.

EDISON

AFC, Inc.

P. O. Box 11. James Bonaventura, Pres. & Pur. Agent; Frank Waterman, Sec.-Treas. & Prod. Mgr.; Wendell Cronk, Plant Mgr.; Frank Waterman, Prod. Mgr. 100,000 tons.

CGH—B & W, Inc.

P. O. Box 26. Frank Waterman, Pres.; James Bonaventura, Vice-Pres.; William Huber, Plant Mgr. 5,000 tons.

EL CENTRO

G—Liquid Fertilizers

P. O. Box 157
Griffin & Huffman.

GG—Border Fertilizer & Supply Co., Inc.

Box 59. Earl E. Nielsen, Pres.; Charles Bartholomew, Vice-Pres.; B. J. Cannon, Sec.-Treas. (Gen. Mgr.)

EL MONTE

BD—Terra Food Fertilizer Co.

3033 Lower Azusa Rd. D. J. Slattery, Pres.; D. D. Foss, Vice Pres., Treas. & Sec.; Wm. Mercer, Plant Mgr. 10,000 tons.

FRESNO

BCDH—Emco Company

W. C. Roem, I. Prandini-Mitchell Seaff, Partners. E. Colvin, Pres.; W. E. Stephenson, Supt.; Mitchell Seaff, Prod. Mgr. 1,000 tons.

CI—Fresno Agricultural Chemical Company (Div. Wilbur-Ellis)
P. O. Box 1286, Dry Mixing Plant. 2,000 tons.

CGH—Modern-Ag Crop Service
2051 Anna St. Partnership—A.

V. & C. E. Jenan, H. D. Stephenson, Plant Mgr. 2,000 tons Liquid Fertilizer.

GIJ—Sunland Industries, Inc.

P. O. Box 1669, Fresno, Calif. B. H. Jones, Pres.; Frank A. Easton and Dr. G. F. MacLeod, Vice-Pres.; Erwin Luttermoser, Sec.-Treas.; Alden Carey, Mgr. Fertilizer Div.; Hugo Klein, Plant Mgr.; R. L. Brant, Pur. Agent; W. L. Piguet, Mgr. Pesticide Div. 20,000 tons.

GH—Town & Country Gas Co.

410 Bank of America Bldg. R. W. De Martin, Pres.; L. K. Martin, Vice Pres.; G. N. Armstrong, Sec.-Treas.; Thurman A. Blake, Plant Mgr. 1,500 tons.

FRENCH CAMP

Organic Factors and Chemicals

Grayson Hinckley, Jr., Sales Mgr.

GARDENA

CG—Yamada Company

706 Gardena Blvd. Partnership. George Kuwahara, Nobe Kuwahara, Shoso Kuwahata, (Purchase) Tateuo Kuwahara. (Production). 2,000 to 3,000 tons.

GARDEN GROVE

Cactizona Mfg. Co.

J. A. McAvoy, Pres.; S. Hurwitz, Treas.; J. Logan, Plant Mgr. Liquid Fertilizer.

GLENDALE

C—Leon's Horticulture Specialties Co.

433-B West Magnolia Ave. Leon Blasczyk, Owner. 40 tons.

GLENDORA

BCD—Golden State Plant Food Co.

7034 N. Valencia. Herman Sperber, Pres.; Howard H. Hawkins, Vice-Pres.; Eugene B. Chewning, Sec. & Treas.; H. H. Hawkins, Plant Mgr. 3,000 tons.

GLENN

CFJ—Sacramento Valley Milling Co.

Wilbur White Owner; Chas. Baker, Plant Mgr.

HAMILTON CITY

CFG—James Mills Growers Service Company

James Mills, Jr., Pres.; Fred Shanks, Vice-Pres.; Alfred Tisch, Treas. 1,000 tons.

HAYWARD

DGIJ—Procon Industries

1054 Dublin Blvd. Joseph & Charles Grimslow Partners. L. T. King, Mgr. Pesticide Division.

C—Swift and Co. Plant Food Division

1225 Winton Ave., Box 540
M. C. McNeil, Mgr.

HOLTVILLE

CEFGHI—Agriform Co., Inc.

L. P. Hall, Pres. & Gen. Mgr.; Jno. Galbraith, Sec. & Chief Engineer; Frank E. Kalbaugh, Plant Mgr.; L. P. Hall, Pur. Agent. 40,000 tons.

HURON

G—Westside Fertilizer Co.

Emil R. Nelson, Plant Mgr.

LINDSAY

CGJ—California Spray Chemical Corp.

Ivor R. Burden, President, E.S. Heckathorn, Vice Pres.; Carroll C. Toll, Vice Pres.; Louis R. Moretti, Sec.-Treas.; E. G. Trimpey, Plant Mgr.; Peter Cherian, Pur. Agent, L. R. Hamilton, Supervisor of Fertilizer Sales.

Orange Belt Supply Co.

P. O. Box 246. Bruce Graves, Mgr. Dry Mixer. Fertilizers-insecticides. Orchard supplies.

C—Valley Fert. Works

P. O. Box 215.

LODI

CDFGI—Lodi Agriculture Supplies, Inc.

P. O. Box 272. Joseph Baldocchi, Robert H. Baldocchi — John Campbell, Plant Food Corp. of Los Angeles, Calif. Joseph Baldocchi, Plant Mgr. 30 tons per day.

LOS ANGELES

C—American Potash & Chemical Corp.

Peter Colefax, Pres.; W. J. Murphy, R. W. Mumford, R. B. Coons, D. S. Dinsmoor, Vice-Presidents; L. A. Adams, Treas.; G. W. Glenn, Sec.; A. J. Anderson, Plant Mgr.; L. H. Cornelius, Pur. Agent. 731,000 tons.

CGIJ—Bandini Fertilizer Co.

4139 Bandini Blvd. Byron Reynolds, Pres.; Thos. S. Reynolds, Vice-Pres. & Sec.; Jack Baker, Treas.; C. Bersche, Plant Mgr.; Jack Baker, Pesticide Div. Mgr. 30,000 tons.

California Cotton Oil Co.

Robert Ingold, Sec. & Treas.

C—California Sun Fertilizer Company

4065 Bandini Blvd. J. M. Quinn, Owner; E. R. Lindberg, Mgr. 5,000 tons.

G—Colloidal Plant Food Co.

3401 Union Pacific Ave. Zone 23. Liquid fertilizers.

C—Germain's, Inc.

W. E. Hill, Mgr.

Gramercy Park Fertilizer Co.

9336 S. Western Ave. Zone 44.

CHI—Inland Fertilizer Company

4134 Bandini Blvd. G. C. Dun-

KEY: A—Complete plant; B—Superphosphate, mixed fertilizers; C—Mixed fertilizer only; D—Sell goods manufactured for them.

ford, Pres.; G. Park Dunford, Vice-Pres.; Jack Dunford, Plant Mgr. 50,000 tons. Dry Fertilizer only.

C—Kellogg Supply Co. Globe Fert. Division
4130 Bandini Blvd. Rowland E. Meyers, Mgr. 30,000 tons.

Min-A-Ray Products Co.

1316 W. 8th St. Mathew P. Thommes, (Owner & Mgr.) Mfrg. a mineral fertilizer using a natural clay-like mineral for a filler. 2,500 tons.

CEI—Naco Fertilizer Co.

3345 Medford St. L. H. Odell, Pres.; Charles White, Mgr. 20,000 tons of Mixed Goods a year.

CGI—Pacific Guano Co.

P. O. Box 3319. W. G. Hewitt, Pres. & Gen. Mgr.; H. G. Conley, Vice Pres. & Asst. Gen. Mgr. Main office, Berkeley, Calif. G. P. Bloxham, Mgr. Sou. Div.; C. H. Cornell, (Sou. Div.) 30,000 tons.

CG—Parco, Inc.

3318 Bandini Blvd. E. Thacher, Pres.; John J. McGrath, Vice-Pres. & Treas.; Geo. W. Burch, Sec.; Sales Ed. A. Thacker, 10,000 tons.

CGI—Plant Food Corporation

3711 Medford St. John E. Campbell, Pres.; M. W. Mothershead, Vice-Pres.; James R. Pitcher, III, Treas.; M. W. Mothershead, Sec.; Chas. D. Black, Plant Mgr. 20,000 tons. Plant Bakersfield, Calif.

CDG—Soil Chemical Products Corp.

3318 Bandini Blvd. E. Thacher, Pres.; Jno. J. McCrath, Vice Pres. & Treas.; Geo. W. Burch, Sec.

C—Southern California Fertilizer Company

1709 W. 8th St. T. W. Houser, Pres.; W. L. Bremer, Vice-Pres.; Irma Jane Brown, Sec. & Treas.; Robert J. Gales, Supt. Dry Mixing plant only. 8,000 tons.

C—Swift & Company, Plant Food Division

Henry C. Hopewell, Mgr. 4060 E. 26th St., Los Angeles.

CFGI—Wilbur-Ellis Co., Southwest-ern Supply Co. Division

1206 S. Maple Ave. Wm. E. Snyder, Gen. Mgr.; Frank Johnson, Plant Mgr.; E. V. Walloch, Pur. Agent. 35,000 tons.

MADERA

CF—Naco Fertilizer Co.

P. O. Box 273. L. H. Odell Pres.; H. E. Ferguson, Vice Pres.; all of San Francisco; M. J. DeGregor, Madera, Mgr.; Leland Radlev, Plant Mgr.; Jas. Lee, Prod. Mgr. 20,000.

MERCED

EFGHJ—Hein's Stockmen Supplies
P. O. Box 1409.
Charlie Hein, Owner & Mgr.

MILPITAS

DG—Garden Valley Liquid Fertilizer Co.

D. L. Watts, Pres.; A. Ferrani, Vice-Pres., Treas. & Sec. 200,-000 Gallons.

MODESTO

CDFGH—Chemical Fertilizer Co.

P. O. Box 1443. Wayne W. Jones, Mgr. & Partner; Donald A. Jaynes, Partner; Lawrence Mann, Plant Mgr.; W. Jones, Pur. Agent. 10,000 tons.

MONROVIA

GH—Liquid Plant Food

1729 S. Magnolia. R. J. Nichols, Pres. & Plant Mgr.; C. E. Blankenship, Prod. Mgr.; Ruth A. Nichols, Vice-Pres.; Robt. A. Nichols, Sec. 500,000 gallons liquid Fertilizer.

MOUNTAIN VIEW

CDFGI—A. L. Castle, Inc.

P. O. Box 303. Thomas S. Castle, Pres.; B. L. Wilson, Vice Pres. 6,000 tons.

NEWMAN

FGI—Westside Products Company

Box 625. H. R. Kunde, Plant Mgr.

NORTH PALM SPRINGS

G—Agricultural Supply Corp.

Anthony M. Lazaros, Pres.; Clayton O. Rudd, Vice Pres.; Anita G. Fuhr, Sec. & Treas. 25,000 gallons or better daily.

NORWALK

CDFI—Agro Phosphate Co.

Gordon Greening, Pres.; Standee Greening, Sec. 20,000 tons.

OAKLAND

B—The Best Fertilizers Company

1459 3rd St. Lowell W. Berry, Pres.; W. L. Dixon, Jr., Vice Pres.; Stanley H. State, Sec. & Treas.; Calvin Dorrough, Plant Mgr.; David M. Sansome, Pur. Agent. 30,000 tons.

CDGHJ—Britz Chemical Co.

304 7th Ave. Albert Britz, Pres.; Helen Britz, Vice Pres. & Treas.; Joseph M. Payer, Sec. 6,000.

Compost Corporation of America

Converts municipal waste (garbage) into organic fertilizer. 50 tons daily.

C—Vizer Steel Corp.

1924 Broadway. Henry J. Kaiser, Pres.; Jack L. Ashby, Vice-Pres.; Atwood Austin, Treas.; J. R. Walker, Sec.; Geo. McMeans,

Plant Mgr.; R. C. Madden, Prod. Mgr.; G. W. Kelly, Gen. Ping Agent. 12,000 tons.

ONTARIO

C—Ontario Fertilizer Works, Inc.

P. O. Box 351. S. Herzberg, Pres.; S. H. Yahres, Sec. & Treas.; S. H. Yahres, Plant Mgr. 10,000 tons. Dry Mixing.

ORANGE

CG—Liquinox Company

1409 W. Chapman Ave. General Partnership: Gordon X. Richmon, G. H. Richardson, Mgr.; Henry C. Garner, R. J. Schostag, Asst. Mgr. Calistro Garnica, Plant Mgr. R. J. Schostag, Pur. Agent. 2,000 tons mixed liquids.

DF—Robinson Fertilizer Co.

P. O. Box 107. C. H. Robinson, Owner; A. D. Verburg, Mgr.

PALO ALTO

C—Plantsmiths

P. O. Box 813. E. F. Smith, Owner. 100 tons. Small package goods only.

PASADENA

CDG—California Liquid Fertilizer Co.

Box 669. J. J. Crosby, Pres.; J. M. Crosby, Vice-Pres.; R. Craig Smith, Sec.-Treas. 1,000,-000 liquid gallons.

C—Coast Agricultural Fertilizer Co.

2785 E. Foothill. Helen L. Long, Owner.

DFIJ—Goodes Seeds and Feed Store

1272 N. Lake Ave. J. Frazier, Owner, 50 tons.

PITTSBURG

Shell Chemical Corp.

Head office New York. Western Division San Francisco. Plant Pittsburg, Calif.

POMONA

C—Pomona Fertilizer Co., Inc.

P. O. Box 419. R. H. Amberson, Pres.; H. B. Jones, Vice-Pres.; Edward F. Struve, Sec. and Treas. 5,000 tons.

PORTERVILLE

B—Claude & Letsinger Agric. Supply

PUENTE

CG—Universal Fertilizer Corp.

Harrison Musgrave, Pres.; Wm. Frederickson, Jr., Vice Pres.; Harrison Musgrave, Treas.; Wm. Frederickson, Jr., Sec.; Geo. A. Cota, Plant Mgr. 1300 tons (250,000 gallons Liquid Mixed Fertilizer).

RICHMOND

CDGI—Agricultural Chemicals Service Co.

641 S. 4th St. Ivor R. Burden, Pres.; E. S. Heckathorn, Vice-

E—Application equipment; F—Spreader Service; G—Liquid Fertilizer; H—Apply custom basis; I—Formulate pesticides; J—Buy blended

Pres.; Carroll C. Toll, Vice-Pres.; Louis R. Moretti, Sec.-Treas; E. G. Trimpey, Plant Mgr.; Peter Cherian, Pur. Agent, 6,000 tons.

BBCGI—California Spray-Chemical Corp.

Lucas & Ortho Way, A. W. Mohr, Pres.; E. W. Cannon, H. J. Grady, Leo R. Gardner, P. S. Williams, Vice Presidents; H. C. Judd, Treas.; G. M. Foster, Sec.; Dale Huntsman, Plant Mgr.; L. R. Hudson, Pur. Mgr.; E. W. Cannon, Vice Pres. & Mgr. Marketing Dept.

Stauffer Chemical Co.

Mfgr. Normal Superphosphate from Sulphuric Acid. & Phosphate Rock.

RIVERSIDE

GJ—Ahlswede Fertilizer Co.

P. O. Box 81 (Arlington)
Karl P. Ahlswede, Owner. Ap-
prox. 3,000 tons.

CGJ—Riverside Fertilizer Works

P. O. Box 232. P. E. Waugh,
Mgr.; J. J. Zikratch, Asst., Mgr.
6,500 tons.

SACRAMENTO

CGHJ—Crane Fertilizer Co.

400 "R" St. Lewis D. Crane,
owner. 500 tons Liquid Fertilizer.

GF—Lagomarsino & Sons

1213 Alhambra Blvd. Peter Lagomarsino, Pres.; John Lagomarsino, Vice-Pres.; Andrew Lagomarsino, Sec.; Earl Lagomarsino, or Gus Garibaldi, Pur. Agents.

BEGIJ—Mackenzie Chemical Corp.

P. O. Box 2489. Charles Mackenzie, Jr., Pres.; Mally C. Mackenzie, Sec.-Treas. 6,000 tons.

CF—John Taylor Fertilizer Company

P. O. Box 781. H. J. Taylor,
Owner. 5,000.

SALINAS

CFGJ—Associated Chemicals

P. O. Box 1330. W. B. Dickens, Sr. Owner; Norman Dickens, Mgr.; James Beegh, Plant Mgr.; W. B. Dickens, Sr., Prod. Mgr.; W. B. Dickens, Sr., Mgr. Pesticide Div. 15,000 tons. Plant Cooper, Calif.

CFGH—John Pryor Co.

P. O. Box 266.
John Pryor Owner, Herb Fleming Manager. 8,000 tons.

CFGHJ—J. F. Sloan Company

P. O. Box 657. J. F. Sloan, Pres.; Mordy S. Rose, Vice-Pres.; May J. Sloan, Sec. & Treas.; Edgar C. Mortz, Plant Mgr. 20,000 tons.

CF—E. B. Stone & Son

P. O. Box 57. E. B. Stone, Sr.

Bruce Stone, Partnership. 10,-
000.

CFGHI—The Triangle Company

320 W. Market St. W. E. Simas, Pres.; V. A. Frizzell, Vice-Pres. & Gen. Mgr.; E. E. Kiplensky, Treas.; Albert Reposa, Plant Mgr.; Robert Wence, Prod. Mgr. 30,000 tons.

SAN BERNARDINO

CHI—Hager Supply Co.

J. W. Hager, Pres.; Margaret Hager, Sec.; Laurence LaFountain, Supt. 2,000.

SAN FRANCISCO

Atlas Chemical Company

#1 Drumm St. Miss Pearl R. Parr, Pres.; Fred D. Parr, Vice-Pres.; L. F. Mezzera, Gen. Mgr. Liquid Fish-derived Fertilizer.

AC—Consolidated Chemical Industries, Inc.

111 Sutter St. Geo. L. Bond, Pres.; E. S. Rothrock, Vice Pres.; Guy P. Jones, Treas.; J. W. Morton, Sec.; Dr. S. Dewes, Supt.; Clark Braden, Pur. Agent; Dr. A. E. DeBuda, Prod. Mgr. 15,000 tons.

G—East Bay Fisheries

F. J. Mullins. 1,500 tons.

Golden Gate Plant Food Co.

1473 Harrison St. Zone 18.
Tablet Fertilizers. 1 ton.

C—C. H. Haas Company

625 Market St. C. H. Haas, Pres.; O. B. Haas, Vice Pres.; John S. Doswald, Plant Mgr. 20,000 tons. Plant—Ceres, California.

C—Mountain Copper Co.

230 California St. L. T. Kett, Gen. Mgr.; J. G. Huseby, Asst. Mgr.; S. D. Dodds, Pur. Agent; C. L. Chapman, Supt.; M. M. Stockman, Sales Mgr. 15,000.

CFIJ—Naco Fertilizer Co.

2 Pine St. L. H. Odell, Pres.; H. E. Ferguson, Vice Pres.; A. S. Rupley, Treas.; W. F. Cogswell, Sec.; C. B. White, (Los Angeles), M. J. DeGregor, (Madera), John McGinley, (Santa Clara)

CGH—Shell Chemical Corporation

100 Bush St. President—R. C. McCurdy, Vice Pres. Marketing—L. V. Steck, Vice Pres., Wes. Div.—G. R. Monkhouse, Treasurer—A. G. Schei, Sec'y. C. E. Grewer.

AI—Stauffer Chemical Company

636 California St. Christian de Guigne, Pres. Hans Stauffer, Vice-Pres. & Gen. Mgr.; Christian de Dampierre, Treas.; Jno. Stauffer, Sec. Plants at Richmond, Calif. and Vernon, Calif.

Tacoma, Wash. Approx. 200,000 tons for three plants.

CDGI—Wilbur-Ellis Company

(Subsidiary: Southwestern Supply Co.) Brayton Wilbur, Pres.; T. G. Frank, Vice-Pres. and Treas.; E. W. Lockwood, Sec. 25,000 tons.

SAN JOSE

CGJ—Don-Mor Fertilizer Co.

663 Lincoln Ave. A partnership Successors to Bachrodt Feed & Fert. Co. 1,000 tons Liquid Fertilizer. M. V. Lowry, Sup't.

CD—Norsco Products, Inc.

P. O. Box 456. Olaf A. Hansen, Pres. & Plant Mgr.; James T. Howell, Vice Pres. Pur. Ag't. Hildur M. Hansen, Treas.; Kathleen C. Howell, Sec.

C—Northern California Fertilizer Co.

901 N. 10th St. Jessie McG. A. Miller, Pres.; Thos. R. Matsuoka, Vice-Pres.; Henry T. Ishigaki, Treas.; Yoneo Bepp, Sec. & Mgr. 5,000 tons.

CFGJ—Orchard Supply Co.

729 W. San Carlos St. Lewis Armstrong, Pres.; W. W. Curtner, Vice Pres.; Stanley B. Smith, Treas. Sec. & Supt. Mgr. Fert. Dept. 10,000 Tons Mixed Fertilizer.

SANTA ANA

Carlsbad Bat Guano Corp.

Roland W. Nicol, Pres.; Wm. T. White, Jr., Vice Pres. & Treas.; James Kindel, Jr., Sec.; Earl Bouslog, Plant Mgr. 8,000 tons of mixed fertilizers.

SANTA BARBARA

GJ—McCrea Seed & Chemical Co.

Box 516. Wayne Kotron, Pres.; Carroll Toll, Vice-Pres.; Sam C. Gorham, Sec. & Treas.

SANTA CLARA

CFGH—Cagmar Chemical Co.

Route 1, Box 1688 Lawrence Rd. Jim Coglia, Owner and Plant Mgr. 25,000 Gal. Liquid Fertilizers. 300 tons dry.

CEFJ—Naco Fertilizer Co.

P. O. Box 149. L. H. Odell, Pres.; H. E. Ferguson, Vice-Pres.; John McGinley, Mgr.; Karl Market, Plant Mgr. 10,000 tons mixed goods a year.

SHAFTER

CGJ—Beebee Fertilizers, Inc.

P. O. Box 1. Ed Brown, Pres.; Fred R. Bryant, Vice-Pres.; Vernon Wilson, Sec.-Treas.; Grady Word, Plant Mgr. 60,000 tons.

KEY: A—Complete plant; B—Superphosphate, mixed fertilizers; C—Mixed fertilizer only; D—Sell goods manufactured for them:

CGJ—Brown & Bryant

P. O. Box Bin T. Ed. A. Brown, Fred R. Bryant, Partners. Vernon Wilson, Prod. Mgr.; Grady Word, Supt. 20,000.

STOCKTON

C—Growers Fertilizer Co.

336 S. Aurora St. F. J. Jones, Owner, 25,000 tons. Earl R. Mog, Plant Mgr. Also, plant in Lovelock, Nevada.

TERMINAL ISLAND

CI—American Corporation

W. Wade Ambrose, Pres.; Mel Marsh, Vice-Pres.; Miss Norma Rogers, Treas.; Dr. H. N. Brocklesby, Sec.; John Patrick, Plant Mgr.; Jaye E. Brower, Gen. Mgr. 10,000.

TERRA BELLA

ABCFGJ—Diamond Fertilizer Co.

P. O. Box H. C. S. Garber, Pres.; Luther Greathouse, Plant Mgr. 12,000 tons annually.

TORRANCE

CG—United Sulphur Co.

Harry A. Medley, President.

TRONA

C—American Potash and Chemical Corp.

Peter Colefax, Pres.; R. B. Coons, W. J. Murphy, R. W. Mumford, D. S. Dinsmoor, Vice Pres.; L. A. Adams, Treas.; C. W. Glenn, Sec.; A. J. Anderson, Plant Mgr.; L. E. Johnson, Prod. Mgr.; L. H. Cornelius, Pur. Agent. Office: 3030 W. 6th St., Los Angeles, Calif. 731,000 tons.

TUSTIN

CDFGJ—Carlsbad Bat Guano Co.

P. O. Box 597. L. P. Fricker, and A. V. Smith, Owners. 8,000 tons.

VERNON

AI—Stauffer Chemical Co.

Christian De Guigne, III, Pres.; John Stauffer, VP & Sec.; Christian de Dampierre, Treas.; H. L. Herkelrath, Plant Mgr.; C. A. Lindsay, Prod. Mgr. Sulphuric acid, Normal and Ammoniated Superphosphate. Plants Richmond & Trona.

VISALIA

FGHJ—B. H. C. Crop Service

P. O. Box 1461. Richard W. Hovey, Mgr.; Partner Wayne K. Collins, Partner—Lester M. Bottkin, Partner & Mgr. Pesticide Division.

WALNUT GROVE

DFGH—Western Delta Chemical Co.

Wm. E. Jaqua, Pres.; H. W. Arrowsmith, Vice-Pres.; W. E. Allstetter, Wm. E. Jaqua, Plant

Mgr. 3,000 tons. Mixed Fertilizers.

Stevenson, Pur. Agent. 1,000 tons.

WASCO

BCEGHI—Agriform Co., Inc.

P. O. Box 66. L. P. Hall, Pres. & Gen. Mgr.; W. C. Rockwell, Vice Pres.; J. N. Galbraith, Sec.; M. E. Koebel, Treas.; D. E. Wingate, Supt.; Stanley Phelps, Prod. Mgr. 30,000 per plant (3).

WATSONVILLE

CF—Boyer Fertilizer Service

1st & Van Ness Ave. H. F. Boyer, Owner. 11,000 tons.

G—Green-Gro Fertilizer & Supply Co.

P. O. Box 381. W. C. Denny, Partner; Walter W. Love, Partner.

CF—K. W. Macdonald Co.

Kearney & Walker Sts., P. O. Box 629. Earle E. Kaplansky, Mgr.; George E. Ashford, Plant Mgr. 10,000 tons.

WHITTIER

ABDI—Leffingwell Chemical Company

Frances Ann Black, Pres.; V. G. Ryland, Vice-Pres. & Treas.; H. W. Nixon, Sec.; J. D. Brannon, Supt.; J. W. Kinsman, Pur. Mgr. 7,000 tons.

WILLOWS

BEFJ—Glenn Fertilizer Co.

Partner — Kent Weaver, Jr.; James Boyd, III; Darden Taylor, Plant Mgr.; K. M. Weaver, Sr., Pur. Agent. 5,000 tons.

WILMINGTON

Coast Fisheries Div. of Quaker Oats Co.

J. R. Biven, Pres.; L. B. Irish, Vice Pres., Treas. & Sec.; C. S. Yeomans, Supt. 3,000 to 5,000 tons. Fish Meal.

CDF—Kellogg Supply Co.

23924 S. Figueroa St. H. Clay Kellogg, Owner; Rowland E. Myers, Sec.; Acel R. Breaseale, Office Mgr.; Lewis A. Wilson, Plant Mgr.; Rowland E. Myers, Pur. Agent. 50,000 tons.

WOODLAND

C—Western Farm Chemical Co.

P. O. Box 221. H. W. Arrowsmith, Pres. & Sec.; D. W. Arrowsmith, Sec.; Wm. D. Ireland, Plant Mgr. 6,000 tons.

YUBA CITY

CDFJ—Yuba City Mills

320 A St. Jerry Harris, Mgr.; J.

COLORADO

COLORADO SPRINGS

G—Heller Greenhouse Laboratories
216 E. Pikes Peak Ave. Mrs. Mary K. Heller, Managing Owner. Manufacture & Package Liquid Plant Food Under Trade Name Heller-Gro. 200,000 gallons.

D—Simpson and Co.

201 W. Colorado Ave. Alfred E. Owens, Gen. Mgr.; Robert S. Davis, Ass't. Mgr.; A. E. Owens, Pur. Agent. 2,500 tons.

DENVER

Agricultural Processing Industries, Inc.

3501 East 46 Avenue Zone 16 Dry Mixer. 200 tons annually. Bedford W. Bird, Gen. Mgr.

DFJ—Brancucci Brothers

1535 Bassett St. James Brancucci, Pres.; Steve Brancucci, Vice Pres.; Dick Gomer, Plant Mgr. 5,000 tons.

C—Capitol Fertilizer Co.

Box 6656. Stockyards Station. E. J. Lindhardt, Pres.; L. D. Shedd, Mgr.; Lewis Johnson, Supt. 7,000.

C—National Fertilizer Co.

Jerry Mitchell, Plant Mgr.; Harold Tabor, Supt. Main office Fairbury, Nebr.

GRAND JUNCTION

CDEFGHI—The C. D. Smith Co., Agricultural Division

645 E. 4th Ave. B. D. Smith, Pres.; S. T. Smith, Vice Pres.; C. A. Dewey, Vice Pres. and Plant Mgr.; C. D. Smith, Sec.-Treas.; F. J. Randall, Pur. Agent. 5,000 tons.

GREELEY

CDEFJ—Simplot Soilbuilders of Greeley (A Div of J. R. Simplot Co.)

P. O. Box 520. J. R. Simplot, Pres.; R. Simplot, Vice-Pres.; W. R. Burgess, Treas. & Sec.; Larry Schumacker, Plant Mgr. 3,000 tons. Dry Mixing Plant General Offices, Boise, Idaho.

MANZANOLA

Colorado Liquid Fert. Co.

(Colorado Corp.) R. M. Pitcher, Pres.; A. R. Downie, Vice Pres.

CI—Colorado Plant Food Company
R. M. Pitcher, owner. J. E. Caravajal, Plant Mgr. 8,000.

MONTE VISTA

B—Maloney Seed Co.
Box 151. A. I. Moloney, Owner.

ROCKY FORD

Colorado Plant Food Co.
P. O. Box 366.
Dry Mixer. 8,000 tons annually.

SWINK

Simplot Soilbuilders of Greeley (A
Div. of J. R. Simplot Co.)
J. R. Simplot, Pres.; R. Simplot,
Vice Pres.; W. R. Burgess, Treas.
& Sec.; Larry Schumaker, Resi-
dent Mgr. of plant. General Of-
fices at Boise, Idaho.

CONNECTICUT

EAST WINDSOR

C—Apothecaries Hall Co.
Mailing Address, Waterbury 20,
Conn.
Lloyd Schlisting, Mgr.

HARTFORD

CJ—Olds and Whipple, Inc.
163 State St. Merle W. Whipple,
Pres.; Ernest J. Brewer, Vice-
Pres.; Frank A. Olds, Treas. &
Chairman of the Board; Wm. C.
Duffy, Sec.; Wallace G. Hast-
ings, Asst. Sec.; F. Herbert
Mackay, Asst. Sec.; L. Victor
Gue, Factory Supt. 50,000 tons.

MILFORD

J—F. H. Woodruff & Sons, Inc.
9 Depot St. Harold F. Woodruff,
Pres. & Treas.; Frank H. Lind-
ley, Vice Pres.; Morris W. Ab-
bott, Vice Pres.; Daniel A. John-
son, Jr., Asst. Treas.; Ralph M.
Collette, Sec.

NEW HAVEN

C—The Mamlon Company
1039 Whalley Ave. A. B. Longo,
Gen. Mgr. Mary A. Masino,
Sales Mgr.; A. B. Longo, Plant
Mgr. 100 tons.

CJ—New Haven Rendering Co.
Branch of Consolidated Rendering
Co., Boston, Mass.; C. O.
Duke, Mgr. 10,000 tons.

NORTH HAVEN

C—The Woodruff Fertilizer Works,
Inc.

James R. Rossman, Pres.; Asst.
Sec., Roland A. Payne. 7,000 tons.

PORTLAND

CIJ—The Rogers & Hubbard Co.
Box 233. A. F. Kingsbury, Pres.
& Treas.; B. B. Fall, Vice Pres.
& Sec.; E. S. Davis, Jr., Asst.
Treas.; A. F. Kingsbury, Jr.,
Asst. Sec.; Horace A. Smith,
Supt.; A. F. Kingsbury, Pur.
Agent. 20,000 tons. Factory:
Middleton.

STAMFORD

C—The F. A. Bartlett Tree Export
Co.

60 Canal St. O. W. Spicer, Pres.;
G. M. Codding, Vice Pres.; L.
Strout, Plant Mgr.

WATERBURY

CFI—Apothecaries Hall Company

824 Benedict St. Chairman of
the Board. I. P. Kellogg; Presi-
dent, Evan H. Jones; Vice-Presi-
dent, Frederick R. Kellogg; Sec-
retary, Levi Wilcox; Treasurer,
Edw. R. Jones. Pur. Agent &
Mgr. Pesticide Div. 50,000 tons.
Factory: East Windsor.

CDFHI—Oscar F. Warner Landscape
Forester

Oscar F. Warner, Owner. 200.

DELAWARE

GEORGETOWN

CD—Melson Fertilizer Co., Inc.

Pierre Hogan, Chairman of the
Board; J. T. Bratton, Treas.;
Margaret Collins, Sec.

LAUREL

CFGH—Valliant Fertilizer Co.

Elbert N. Carvel, Pres.; Edwin
S. Valliant, Jr., Vice-Pres.; and
Treas.; J. Carlton Hearn, Sec.;
Ernest Dickerson, Supt. 25,000
tons.

MILFORD

CFGH—Milford Fertilizer Company

Edwin S. Valliant, Jr., Pres. &
Pur. Agent; Elbert N. Carvel,
Vice-Pres.; Robert A. Fischer,
Sec.-Treas. & Prod. Mgr.; Louis
Carpenter, Plant Mgr. 10,000
tons.

SEAFORD

CFGH—Huston, Culver Fertilizers

Box 89. D. D. Culver, Pres.; Geo.
H. Culver, Vice-Pres.; Houston
Wilson, Sec.; Albert Culver,
Supt.; Geo. H. Culver, Prod.
Mgr. 10,000 tons.

CF—A. S. Wooley Company, Inc.

So. Fine St. Thomas Scott Purse,
Pres.; Mary J. Eddy, Vice-Pres.;
Jean L. Purse, Sec. & Treas.;
Leonard H. Barkley, Plant Mgr.;
T. Scott Purse, Prod. Mgr. 6,000
tons.

SELBYVILLE

Smith-Douglass Co., Inc.

Main office: P. O. Box 419, Nor-
folk 1, Va. R. B. Douglass, Pres.
& Treas.; Vice Presidents: W. B.
Copeland, J. A. Monroe, J. H.
Culpepper & W. R. Ashburn; W.
F. Powers, Sec.; S. L. Lott, Asst.
Treas.; L. H. Jackson, Asst. Sec.
all of Norfolk, Va.

SMYRNA

CFGHJ—Warner W. Price Company,
Inc.

P. O. Box 501. Warner W. Price,
Jr., Pres. & Pur. Agent; Mildred
H. Price, Vice Pres.; Harry J.
Lower, Vice Pres. & Treas.;
James R. Ford, Sec.; Courtland
Gaulke, Plant Mgr. 15,000 tons.

WILMINGTON

CDGI—Eastern States Farmers' Ex-
change, Inc.

D. O. Conrad, Plant Mgr.; J. R.
Myers, Fertilizer Production
Mgr.; Quentin Reynolds, Gen
Mgr.; M. E. Pike, Treas. 15,000
tons.

DISTRICT OF COLUMBIA

WASHINGTON

C—F. W. Bolgiano and Company

411 New York Ave., N. E. Mrs.
Nellie D. Bolgiano, Pres.; Gor-
don R. Smith, Vice-Pres.; Ray-
mond B. Ward, Treas.; C. Blake-
ly Arthur, Sec.; W. H. Cockerell,
Plant Mgr.; C. B. Arthur, Prod.
Mgr. Approximately 8,000 tons.

FLORIDA

BARTOW

B—Armour Fertilizer Works

Triple Superphosphate Plant.
E. C. Johnson, Supt. General
Office, Atlanta, Ga. 150,000.

C—Ideal Fertilizer Company

Reginald Garrett, Mgr.

The Davison Chemical Corp.

Chairman of the Board, Chester
F. Hockley, Vice Chairman of the
Board M. G. Geiger, Pres.
R. L. Hockley, Vice Pres. Mixed
Fert. Div. W. N. Watrough, Jr.
Vice Pres. Finance, M. C. Roop,
Vice Pres. Marketing, D. N.
Houseman, Vice Presidents, C.
E. Waring, W. B. McCloskey &
P. W. Bachman, Treas. J. E.
Hardesty, Controller F. J. Griffin,
Pur. Agent, C. C. Dorsey.

A—International Minerals & Chemi-
cal Corp.

P. O. Box 867. Rock Phosphate
Mines and Phosphate Chemicals
Plant. R. Louis Ware, Pres.; G.
W. Moyers, Vice Pres.; F. A.
Kochlein, Gen. Mgr.; R. B.
Fuller, Asst. to V.P.; F. B.
Bowen, Plant Mgr. (Mines); E.
T. Casler, Asst. Mgr. (Mines);
S. T. Keel, Sales Mgr. Rock
Phosphates; G. A. Read, Sales
Mgr. Feed Phosphates; H. C.
Cooper, Pur. Agent.

A—Swift & Company

Phosphate Mine, R.F.D. 1, Box
200, Home Office, Union Stock
Yards, Chicago, Illinois. H. P.
Gould, Mgr.

KEY: A—Complete plant; B—Superphosphate, mixed fertilizers; C—Mixed fertilizer only; D—Sell goods manufactured for them;

BELLE GLADE

CEI—**Hector Supply Co.**

Louis J. Hector, Pres. Miami, Fla. H. B. Fultz, Miami, Fla., Vice-Pres. & Treas.; K. F. Anderson, Sec., Miami, Fla. M. M. Sabiston, Belle Glade, Supt.; C. E. Reger, Miami, Fla., Pur. Mgr. 3,000 tons.

CEFI—**Wedgeworth's, Inc.**

Box 205. Ruth S. Timmons, Pres.; N. T. Taylor, Gen. Mgr. 6,000 tons.

CLEARWATER

C—**Pinellas Growers Association Fertilizer Works**

P. O. Box 632. Stephen Chase, Pres.; A. V. Saurman, Sec. and Treas. Capacity 10,000 tons.

COTTONDALE

A—**Cartledge Fertilizer Co.**

Division of Wilson and Toomer Fert. Co. Raymond Cartledge, Mgr. 50,000 tons.

DADE CITY

C—**Pasco Packing Co. Fertilizer Division**

J. T. Lvkas, President; L. C. Edwards, Jr., H. S. Massey, Vice Presidents; L. M. Hawes, Sec. and Treas.; H. H. Boltin, Prod. Mgr.; H. C. Whelchel, Plant Mgr.; A. L. Spencer, Pur. Agent.

DUNNELLON

Seaboard Phosphate Company

R. R. Knight, President; W. L. Smith, Plant Mgr. Producer of Soft Phosphate with Colloidal Clay. 20,000 tons.

Soil Builders, Inc.

F. O. Hanks, Pres.; C. D. Bevis, Vice-Pres.; E. B. Larson, Sec.-Treas.; A. S. Head, Plant Mgr. Manufacturer of Soft phosphate With Colloidal Clay. 20,000 tons.

Superior Phosphate Co.

J. H. Roof, Sr., Pres.; R. D. Roof, Vice-Pres.; B. E. Roof, Treas. Sec. Producers of Phosphatic Clay under the trade name of "Collofos" brand colloidal Phosphate. 20,000 tons.

FT. LAUDERDALE

C—**Everglades Fertilizer Company**

Jno. B. Dye, Pres.; J. A. Speights, Vice-Pres.; John B. Dye, Jr., Treas.; Alf M. Dye, Sec. & Plant Mgr. 25,000 tons.

FT. PIERCE

C—**The Growers Fertilizer Company**

P. O. Box 246. J. E. Nobles, Jr., Pres.; E. M. Nobles, Vice-Pres.; W. Bush, Sec. & Treas.; U. A. Pyles, Plant Mgr. 25,000 tons.

CEGI—**Naco Fertilizer Company**

Head Office 9 S William St., N. Y. 4 N. Y. Drawer 150, Ft. Pierce. Plants: Jacksonville, Ft. Pierce, Wilmington, N. C., Charleston, S. C., Spartanburg, S. C. Findlay, Ohio. W. H. Klee, J. M. Blass, & O. C. Minton, Vice Presidents; Fred Marshall, Treas.; O. C. Minton, Plant Mgr. 50,000 tons.

FROSTPROOF

C—**Maxcy Fertilizers, Department of Clinton Foods, Inc.**

P. O. Box 153. L. Maxcy, Vice Pres. & Gen. Mgr.; L. A. Huemler, Sec. & Treas.; E. R. Johnston, Plant Mgr.; N. H. Houston, Prod. Mgr.; E. R. Johnston, Pur. Agent. 10,000 tons.

GAINESVILLE

Falcon Fertilizer Co.

P. O. Box 646. F. L. Johnson.

GOULDS

C—**Southern Florida Fertilizer Company**

Winford W. Brown, Pres. & Prod. Mgr.; J. S. Eaton, Vice-Pres.; W. J. Hiller, Sec.; R. O. Brown, Plant Mgr. 25,000 tons.

HAINES CITY

C—**Gentile Bros. Company**

Lawrence Gentile, Sr., Pres.; Victor Gentile, Vice-Pres.; Leonard Gentile, Sr., Sec. and Treas.; Earle Lucas, Mgr. 10,000 tons.

C—**Haines City Fertilizer Works**

Dr. A. F. Camp, Pres.; R. V. Phillips, Gen. Mgr.; A. C. Mathias, Proj. Mgr.; C. A. Adams, Sec. & Treas. 10,000 tons.

C—**Polk County Fertilizer Company**

Dixie Highway. Partnership. L. B. Angel, N. H. Stiles, Jno. L. Olson, V. J. Dillistone. 25,000 tons.

HAVANA

C—**The Planters Exchange, Inc.**

W. P. Woodberry, Pres.; B. L. Gregory, Vice-Pres.; W. L. Williams, Sec. and Treas.; C. W. May, Supt.; W. L. Williams, Prod. Mgr. 15,000 tons.

HIGH SPRINGS

Loncalta Phosphate Company

Sam Kelly, Pres.; Charles Savage, Vice-Pres.; Betty Rimes Chester, Sec. & Treas.; E. W. Sweet, Supt. Producers of Colloidal Phosphate. 15,000 tons.

HOMESTEAD

CFJ—**Florida East Coast Fertilizer Company**

P. O. Box 455. G. Walter Moody, Pres.; A. D. Fogle, Sec.-Treas.

Henry R. Pridgen, Mgr.; John M. Frederick, Plant Mgr.; Howard C. Bardsley, Mgr. Pesticide Div. 10,000 tons.

JACKSONVILLE

A—**Armour Fertilizer Works**

Talleyrand Ave., E. E. Bruer, Div. Mgr. General Office, Atlanta, Ga.

C—**International Minerals & Chemical Corp.**

Plant. K. B. Kellam, Supt.

CGI—**Naco Fertilizer Company**

P. O. Box 1114, Head Office, N. Y. City. Plants located at Jacksonville, Fla., Ft. Pierce, Fla., Wilmington, N. C., Charleston, S. C., Spartanburg, S. C., Findlay, Ohio. W. H. Klee, J. M. Blass & O. C. Minton, Vice Presidents; Fred Marshall, Treas.; W. H. Klee, Plant Mgr.; G. A. Zeigler, Prod. Mgr.; Wm. Rohrer, Pur. Agent N. Y. Office. 50,000 tons.

C—**Trueman Fertilizer Company**

1015 Lynch Bldg. P. O. Box 1175. Ray B. Trueman, Pres.; J. J. McGrath, Vice-Pres.; Hoyt Bragdon, Sec. and Treas.; Henry J. Cocks, Asst. Sec. & Treas.; W. R. Royster, Plant Mgr.; R. B. Trueman, Prod. Mgr. Established 1921. 50,000 tons.

C—**Virginia-Carolina Chemical Corp.**

Jacksonville, Fla. (Factory.) General Offices: Richmond, Va.

A—**Wilson & Toomer Fertilizer Co.**

P. O. Box 4459. Wallace B. Hicks, Pres.; Frank Taylor, Jr., Vice Pres.; B. D. Barber, Fred D. Coffey, M. C. VanHorn, Vice Presidents; George D. Hore, Sec.; W. C. Mundee, Treas.; E. E. Hore, Asst. Sec.-Treas.; W. A. Stone, Plant Mgr.; Fred D. Coffee, Prod. Mgr. & Vice Pres. 125,000 tons.

LAKE ALFRED

CJ—**Growers Fertilizer Cooperative**

B. T. Reynolds, Pres. & Treas.; N. A. Street, Vice-Pres.; Chas. M. Shinn, Sec. 25,000 tons.

LAKELAND

C—**Florida Favorite Fertilizer, Inc.**

W. H. Stuart, Pres.; J. K. Stuart, Vice-Pres.; M. A. Cook, Sec. and Treas.; E. F. Murray, Mgr.; J. E. Palmer, Plant Mgr. 45,000 tons.

LAKE WALES

C—**Ridge Fertilizer Co.**

P. O. Box 436. M. C. Dopler, Pres.; King Sprott, Vice-Pres.; P. J. Gum, Sec.-Treas. and Mgr.; H. B. Hinton, Supt. 20,000 tons.

LEESBURG

CFG—Foremost Fertilizer Company

P. O. Box 358. Byron E. Herlong, Pres.; R. Parks Williams, Vice Pres.; Walter Manly, Sec. & Treas.; N. A. Lockett, Gen. Mgr.; W. J. Belding, Plant Mgr.

M—16 Products, Inc.

Box 450. I. A. Mayo, Pres.; Ralph E. Roper, Vice Pres.; G. L. McComb, Sec.-Treas. & Gen. Mgr.

MIAMI

CEI—Hector Supply Co.

P. O. Box 1311. Louis J. Hector, Pres.; H. B. Fultz, Exec. Vice Pres.; C. E. Reger, Vice Pres.; R. C. Hector, Vice Pres.; J. H. Franks, Sec.; W. D. DeHass, Plant Mgr. Miami, Fla. 20,000 tons—Belle Glade, Fla. 3,000 tons.

CGH—10 Elements Mineral Plant

Food

3255 W. Flagler St., P. O. Box 365 R. Station. Zana Dearick, Owner.

MOUNT DORA

CFI—Citrus Culture Corp.

P. O. Box 699. J. E. Fortner, Pres. and Gen. Mgr.; Geo. J. White, Sec. and Treas.; J. A. Sligh, Plant Mgr. 30,000 tons.

MULBERRY

C—International Minerals and Chemical Corp.

Sales Office, Plant. E. Meade Wilson, Area Mgr.; J. P. O'Cain, Supt.

NICHOLS

A—Virginia-Carolina Chemical Corp.

Factory: Phosphate Rock Mines & Chemical. General Offices: Richmond, Va.

OAKLAND

CFG—South Lake Fertilizer Works

Mrs. J. D. Hennes, Pres.; Dan L. McKinnon, Vice-Pres.; H. C. Tilden, Treas. and Sec.; George Beck, Plant Mgr.; W. S. Arrington, Prod. Mgr.; W. S. Arrington, Mgr. Pesticide Div. 10,000 tons.

OCALA

CFGJ—Marico Incorporated

P. O. Box 494. Alex Collins, Pres.; O. C. Branch, Sr., Vice-Pres.; L. F. Branan, Sec. & Treas.; O. C. Branch, Jr., Plant Mgr. & Prod. O. C. Branch, Sr., Pur. Agent; O. C. Branch, Jr., Mgr. Pesticide Div. 15,000 tons.

ORLANDO

CDFI—Fosgate Growers Cooperative

P. O. Box 2673. Chester C. Fosgate, Pres.; W. H. Gibb, Vice-

Pres.; Abe Meer, Mgr. Fertilizer Department; Philip Marz, Sec. & Treas.; Harriette C. Nelson, Asst. Sec.; Vernon D. Drake, Fert. Plant Mgr.; W. H. Hancock, Prod. Mgr.; Abe Meer, Pur. Agent, Mgr. Pesticide Div. 20,000 Tons Mixed Fertilizer. Fert. Plant located at Forest City, Seminole County, Fla. Office located at Forest City, Fla. No. Post Office—All mail to Orlando, Box 2673.

C—Howard Fertilizer Company

Partners J. Howard and R. M. Howard. W. A. Bishop, Plant Mgr. 20,000 tons.

Howard Phosphate Co. (Not Inc.)

S. W. & M. C. Howard, Partners. W. E. Marlow, Plant Mgr. 10,000 tons. Colloidal Phosphate Mining.

International Minerals & Chemical Corp.

1230 Golden Lane. J. L. Baskin, Fla. Sales Representative. Sales Office only.

CJ—Dr. P. Phillips Fertilizer, Inc.

60 W. Robinson Ave., P. O. Box 3753. Howard Phillips, Pres.; Della Phillips, Vice-Pres.; Cawood Whitley, Treas.; R. D. Robinson, Sec.; N. E. Marling, Plant Mgr.; K. O. Winjum, Pur. Agent. 3,000 tons.

Virginia-Carolina Chemical Corp.

Orlando, Fla. (Sales Office). General Offices: Richmond, Va.

CJ—Walker Fertilizer Company

R.F.D. #2, Box 33-A. E. B. Hunt, Pres.; C. W. Walker Vice-Pres.; Mrs. J. R. L. Staples, Sec., Treas. & Pur. Agent.; C. D. Walker Chairman of the Board; R. T. Williamson, Plant Mgr. 50,000 tons.

OVIEDO

C—Wheeler Fertilizer Co.

B. F. Wheeler, Sr., Pres.; B. F. Wheeler, Jr., Vice-Pres.; Jno. W. Evans, Treas.; A. A. Myers, Mgr. 30,000 tons.

PAHOKEE

CFI—Glades Chemical Co.

P. O. Box 817. Formerly Stuckey Fert Works, Wm. S. Plumer, Pres. & Gen. Mgr.; Howard C. Fisher, Vice Pres.; Howard K. Morgan, Sec. & Treas.; T. E. Pennington, Plant Supt. 10,000 tons.

PENSACOLA

A—The American Agricultural Chemical Company

Box 1671. Sales Office and Factory. T. T. Gully, Mgr.; O. F. Cordon, Supt.

C—International Minerals & Chemical Corp.

Plant. R. D. Dark, Supt.

C—Merchants Fertilizer & Phosphate Company of Pensacola, Inc.

M. J. Clement, Pres. and Gen. Mgr.; M. C. Brown, Sec. 25,000 tons.

C—The Southern Cotton Oil Company

Main Office, New Orleans, La. J. T. Murphy, Mgr.

PIERCE

A—The American Agricultural Chemical Company

Mines, Sales Office & Fertilizer Works. R. H. Cameron, Mgr. Pierce Fert. Sales; F. R. Bergquist, Mgr. Phos. Rock Mines; A. K. Wood, Supt. of Fert. Work.

Pierce Phosphorus

Phosphorus Plant Only. F. E. Maurer, Supt.

PLANT CITY

C—Alvin H. Hinson

A. H. Hinson, Owner, one half ton mixing unit.

C—Shore Fertilizer Company

Box 469. S. D. Shore, Mgr. 10,000 tons.

ABCD—Smith-Douglass Co., Inc.

P. O. Box 419, Norfolk 1, Va. Plant: Plant City. R. B. Douglass, Pres. & Treas., Norfolk, Va. Vice Presidents: W. B. Copeland, J. A. Monroe, J. H. Culpepper & W. R. Ashburn, all of Norfolk, Va. W. F. Powers, Sec., Norfolk, Va.; S. L. Lott, Asst. Treas., Norfolk, Va.; L. H. Jackson, Asst. Sec., Norfolk, Va.

PLYMOUTH

CJ—Plymouth Citrus Growers Association

E. W. Fly, Pres.; A. C. Johnson, Vice-Pres.; R. T. Carleton, Sec.; Dean Thomas, Plant. Mgr.; Geo. Fernandez, Pur. Mgr.; E. L. Mathews, Prod. Mgr. 20,000 tons.

PORT EVERGLADES

CD—The Gulf Fertilizer Co.

F. J. Woods, President & Treas.; Mrs. L. R. Woods, Vice Pres.; W. H. Anderson, Sec.; W. C. Buchanan, Branch Plant: Main Office: Tampa, Fla. 30,000.

ST. PETERSBURG

CEI—Chatelier's Laboratories

Dr. Paul A. Chatelier, Owner Mary K. Chatelier, Sec. & Treas.

SANFORD

C—Chase & Company

P. O. Box 291. Randall Chase, Pres.; S. O. Chase, Jr., Vice-Pres.; R. A. Smith, Treas.; T. W. Jones, Sec.; Eric Nordgren, Plant Mgr. 20,000 tons.

SEBRING

CFH—Highlands Fertilizer Co.

W. W. Harshman, Pres.; F. M. Schumacher, Sec. and Treas.; R. S. Hartlie, Plant Supt. 10,000 tons.

TAMPA

CJ—The Gulf Fertilizer Co.

P. O. Box 2721. L. P. Woods, Chairman of the Board—F. J. Woods, President & Treas.; Mrs. L. R. Woods, Vice-President; W. H. Anderson, Sec.; R. G. Alford, Plant Manager; W. H. Bush, Pur. Agent; R. R. Reed, Mgr. Pesticide Div. Home Office, Tampa. 60,000 tons.

CD—Lyons Fertilizer Company

W. L. Waring, Jr., Pres.; R. G. Nelson, Vice-Pres.; W. F. McLane, Treas.; J. C. Wolfe, Sec. & Gen. Mgr.; T. E. Bourland, Jr. 50,000 tons.

CJ—Peninsular Fertilizer Works

Drawer 3272. Division of Wilson & Toomer Fertilizer Co., G. H. Lucas, Gen. Mgr.; E. V. Gunn, Supt. 65,000 tons.

CI—Superior Fertilizer Co.

P. O. Box 1021. Tom B. Swann, Pres.; G. D. Sloan, Sec.-Treas. and Gen. Mgr.; G. F. Marrs, Plant Mgr.; A. D. Rothwell, Prod. Mgr. 30,000 tons.

A—U. S. Phosphoric Products

Division, Tennessee Corp. P. O. Box 3269. Division of the Tennessee Corporation. L. C. Oakley, Jr., Mgr.; J. K. Sparkman Sales Mgr. 500,000 Triple Superphosphate, 150,000 tons Superphosphate.

C—West Coast Fertilizer Co.

P. O. Box 1094. C. F. Daly, Pres.; O. H. Maxwell and G. F. Reeves, Vice-Pres.; E. A. Fripp, Sec. and Treas.; H. L. Sweet, Plant Mgr. Capacity 50,000 tons.

WAVERLY

CFJ—Waverly Fertilizer Works

W. C. Pedersen, Pres.; A. E. Walker, Vice Pres.; Morton Howell, Mgr. Pesticide Div. 12,000 tons.

WINTER GARDEN

C—Diamond R. Fertilizer Co.

Box 132. L. F. Roper, Pres.; B. E. Roper, Vice-Pres.; W. F. Roper, Sec.-Treas.; Geo. M. Barley, Gen. Mgr.; J. S. Watson, Plant Mgr. 12,000 tons.

WINTER HAVEN

C—Swift & Company Plant Food

Division
Box 1272. J. W. Whitaker, Mgr.

GEORGIA

ADEL

CE—The Cotton Producers' Association

Main Office, Atlanta, Ga., siding on G. & F. R. R. 10,000 tons.

ALBANY

C—Albany Warehouse Company

J. P. Champion, Pres.; R. E. Champion, Vice-Pres. and Treas.; J. P. Champion, Jr., Vice-Pres. & Gen. Mgr. 13,000 tons.

A—Armour Fertilizer Works

W. A. Higginbotham, Jr., Div. Mgr.; General Office, Atlanta, Ga.

International Minerals & Chemical Corp.

W. P. Burke, Dist. Sales Mgr., District Sales Office.

B—Swift & Company, Plant Food Div.

O. D. Culpepper, Mgr., Albany, Ga.

C—Virginia-Carolina Chemical Corp.

Albany, Ga. (Factory & Sales Office) General Offices, Richmond, Va.

AMERICUS

CDFJ—Americus Oil Company

Box 376. H. E. McMath, Pres.; R. L. McMath, Treas.; Howard Bankston, Asst. Sec. & Treas. 10,000 tons yearly.

B—International Minerals and Chemical Corp.

Plant, F. L. Butler, Supt.

ARLINGTON

CFJ—Arlington Manufacturing Co.

Box 153. C. M. Cowart, President & Owner; James W. Tindol, Plant Mgr. 1,000 tons.

CD—Arlington Peanut Company

W. E. Bostwick, Pres.; J. M. Allen, Sec. 1,000 tons.

ATHENS

AJ—Empire State Chemical Co.

M. S. Hodgson, Pres. & Pur. Agent.; E. R. Hodgson, G. L. Daniel, Vice Pres.; Harry Hodgson, Sec. & Treas.; Chas. P. Bolding, Vice Pres., Supt. & Plant Mgr. 50,000 tons.

C—Hulme Fertilizer and Warehouse Co.

G. H. Hulme, Pres. & Mgr.; W. L. Malcom, Plant Supt. 3,000 tons.

CFJ—Rowe Warehouse & Fertilizer

P. O. Box 1107. Partnership: Malcolm A. Rowe, Mrs. Maude P. Rowe & Mrs. Mary Rowe Birchmore. H. Grady Parr, Plant Mgr.; Malcolm A. Rowe, Pur. Agent. 20,000 tons.

D—The Southern Cotton Oil Co.

Main Office, New Orleans, La., H. C. Harper, Mgr., Athens, Ga.

ATLANTA

B—A. D. Adair and McCarty Bros., Inc.

104 Poplar St. A. D. Adair, Sr., Pres.; A. D. Adair, Jr., Vice Pres.; Plants: Chattanooga & Gray Station, Tenn. Supts.: George Masters, Chattanooga, D. V. Bird, Atlanta—George H. Crossley, Gray Station, Tenn. 20,000 tons Atlanta & Chattanooga—10,000 tons Gray Station, Tenn.

A—Armour Fertilizer Works, General Office.

P. O. Box 1685. Atlanta, Ga. J. E. Sanford, Pres.; W. E. Shelburne, Vice Pres.; C. F. Hagedorn, Vice Pres., G. T. Cunningham, Vice Pres. & Director of Sales, H. C. Moore, Vice Pres. & Director of Purchases, I. J. Field, Sec.; V. H. Hair, Treas. Plants located at Searsport, Me.; Catteret, N. J.; Baltimore, Md.; Norfolk, Va.; Navassa, N. C.; Greensboro, N. C.; Columbia, S. C.; Augusta, Ga.; Columbus, Atlanta, Albany, Ga.; Bartow, Jacksonville, Fla.; Montgomery, Birmingham, Ala.; No. Kansas City, Mo.; New Orleans, La.; Waterloo, Iowa; Houston, Dallas, Texas; Nashville, Tenn.; Jeffersonville, Ind.; Cincinnati, Ohio; Sandusky, Ohio; East St. Louis, Ill.; Chicago Heights, Ill.; Winona, Minn.; Matanzas, Cuba; San Juan, Puerto Rico.

C—Atlanta Chemical Co.

W. B. Burns, Pres.; Mrs. T. G. Chastain, Vice-Pres.; W. B. Burns, Treas.; D. J. Ray, Sec. P. H. Ginn, Plant Mgr. 20,000 tons.

BI—The Cotton Producers Association

P. O. Box 2210. Main office. S. S. Johnson, Rome, Ga. Pres.; Warren P. Sewell, Atlanta, Ga., Vice Pres.; C. B. Funderburk, Atlanta, Ga., Treas.; D. W. Brooks, Sec. & Gen. Mgr.; J. E. Nunnally, Director Fertilizer Service, Atlanta, Ga. Plants at Adel, Ga., Carrollton, Ga., Cordele, Ga., Savannah, Ga., and Sylvester, Ga. 81,000 tons.

International Minerals & Chemical Corp.

903 Mortgage Guarantee Bldg.
M. S. Malone, District Sales
Mgr., Agricultural Potash; R. H.
Linderman, District Sales Mgr.,
(Southern) Phosphate Division.
Sales office only.

C—F. S. Royster Guano Company

C. F. Burroughs, Pres.; W. T.

Wright, F. S. Moore, F. S.

Royster, Jr., Vice-Presidents;

C. F. Burroughs, Jr., Treas.

Sheppard, R. Cooke, Sec.; Jno.

P. Porter, Sales Mgr.; J. H.

Stamps, Supt. 15,000 tons.

B—Southern Fertilizer & Chemical Co.

P. O. Box 673, Exec. Offices,
Savannah, Ga. A. D. Strobar,
Pres.; W. Dewey Cooke, Vice
Pres. & Treas.; W. W. Harley,
Vice Pres. Sales; A. D. Brent,
Vice Pres. Production; E. G.
Mayfield, Plant Manager. 40-
50,000 tons Super & Mixed
Goods.

B—Swift & Company, Plant Food Division

A. L. Wiley, Mgr., 33 Hunter
St., S. W.

C—Virginia-Carolina Chemical Corp.

Atlanta, Ga. (Sales Office and
Factory). General Offices: Rich-
mond, Va.

AUGUSTA

C—Armour Fertilizer Works

W. G. Neuhaus, Div. Mgr., Gen-
eral Office, Atlanta, Ga.

CJ—Augusta Fertilizer Company

P. O. Box 760, W. W. Doughty,
Pres.; C. A. DeBeauprime, Vice
Pres. & Treas.; M. M. Smith, Sec.
10,000 tons.

B—Etheredge Guano Company, Inc.

J. Lee Etheredge, Sr., Pres.; J.
Lee Etheredge, Jr., Vice-Pres.;
P. L. Etheredge, Sec. and Treas.
H. J. Osborne, Plant Mgr. 18,000
tons.

B—International Minerals & Chemical Corp.

Plant, C. H. Flint, Supt.

A—Virginia-Carolina Chemical Corp.

Augusta, Ga. (Factory). Gener-
al Offices, Richmond, Va.

BARTOW

CD—Bryant's Incorporated

Fred C. Evans, Pres. and Prod.
Mgr.; J. B. Greenway, Plant
Mgr. 2,500 tons.

BLACKSHEAR

CF—The Blackshear Manufacturing

Co.

L. J. Allen, Pres.; J. H. Donald-
son, Vice-Pres.; R. D. Thomas,
Vice-Pres.; Warren Lott, Sec.
and Treas.; Geo. D. Brantley,
Asst. Sec. & Treas.; M. E. Dowling,
Plant Mgr. 25,000 tons.

BLAKELY

GHJ—Singletary Farms

R. C. Singletary, Jr. & A. J.
Singletary, Partners.

BUTLER

CDF—Cochran Fertilizer Plant

J. T. Cochran, Owner. 3,000 tons.

CAIRO

CJ—Farmers Fertilizer Company

Freel Carroll, Jr., Pres.; C.
Ausley, Vice Pres.; M. A. Abra-
ham, Sec.-Treas.; G. Godwin,
Plant Mgr. 5,000 tons.

CAMILLA

CF—Camilla Cotton Oil Co.

George M. Perry, President. W.
Delma Givins, Plant Mgr. 6,000
tons.

CF—The W. F. Cullens Fertilizer Company

Drawer 192, W. F. Cullens (own-
er); P. C. Cullens, Gen. Mgr.; W.
T. Hurst, Supt. 5,000 tons.

BE—The Cotton Producers' Association

Main Office, Atlanta, Ga., sit-
ting on C. of Ga. Rwy. 20,000
tons.

CARTERSVILLE

C—The Southern Cotton Oil Company

Main office, New Orleans. La.
Sam McGowan, Mgr. Carters-
ville, Ga.

CEDARTOWN

C—Tennessee Corporation

J. K. Plummer, Gen. Mgr.

COLUMBUS

A—Armour Fertilizer Works

F. B. Mainor, Div. Mgr. General
Office, Atlanta, Ga.

CI—W. C. Bradley Company

P. O. Box 140, D. A. Turner,
Chairman; Wm. B. Turner, L. P.
Corn, 1st Vice Pres.; M. J. Stall-
ing, Vice Pres.; J. R. Thomas,
Plant Mgr.; P. H. Burrus, Sec.
Treas. & Pur. Agent. 10,000 tons.

C—The Southern Cotton Oil Company

Main Office, New Orleans. La.
W. S. Boyd, Mgr. Columbus, Ga.

COLQUITT

CJ—Farmers Fertilizer & Milling Co.

Fourth St. T. W. Rentz, Vice
Pres.; Mrs. Hazel Rawls, Sec. &
Treas.; W. B. Rentz, Plant Mgr.;
W. H. Rawls, Pur. Agent. 10,000
tons.

COMER

CJ—Whitehead and Gholston

H. J. Whitehead, Active Part-
ner; S. P. David, Plant Mgr. 4,-
000 tons.

COMMERCE

CJ—Commerce Fertilizer Company

J. M. Shepherd, Pres.; V. L.
Davis, Vice Pres.; Mrs. T. A.
Minish, Sec. & Treas.; W. B.
Wilson, Plant Manager; J. B.
Williams, Gen. Manager. 3,000-
4,000 tons.

CONCORD

CF—R. F. Strickland Company

G. E. Strickland, Pres.; G. M.
Strickland, Vice Pres.; R. H.
Strickland, Sec. and Treas. Pur.
Agent Mgr. 7,500 tons.

CORDELE

**BE—The Cotton Producers' Associa-
tion**

Main Office, Atlanta, Ga. Sid-
ing on ACL RR & GS&F RR.
25,000 tons.

**C—The Southern Cotton Oil Com-
pany No. 1**

Main Office, New Orleans. La.
E. O. Leddon, Mgr. Cordele #
1 Ga.

**D—The Southern Cotton Oil Com-
pany No. 2**

Main Office, New Orleans. La.
H. L. Richey, Mgr. Cordele No.
2, Ga.

COVINGTON

CJ—Fowler Fertilizer Co.

R. R. Fowler. 10,000 tons.

CUTHBERT

C—Cuthbert Gin Company

P. M. Reid, Pres.; W. W. Branch,
Vice Pres. & Gen. Mgr.; Sara
Pearce, Sec. & Treas. 5,000 tons.

DALTON

C—Looper & Swann

401 McCamy St. H. J. Longley,
Plant Mgr. Paul Swann, Prod.
Mgr.; J. W. Looper, Pur. Agent.
3,000 tons.

KEY: A—Complete plant; B—Superphosphate, mixed fertilizers; C—Mixed fertilizer only; D—Sell goods manufactured for them;

DAWSON

Dawson Compress & Storage Company

T. B. Raines, Pres.; Ernest Baldwin, Sec.-Treas. & Gen. Mgr.; Frank Orr, Plant Mgr. 5,000 tons.

CF—Dawson Cotton Oil Co.

E. Stevens, Chairman of the Board. M. E. Williams, Pres.; Irby L. Lindsey, Plant Supt. 35,000 tons.

C—The Southern Cotton Oil Company

Main Office, New Orleans, La. F. A. Graham, Mgr., Dawson, Ga.

DOERUN

CFH—Shepard Fert. Co.

A. H. McGraw, Prod. Mgr.; W. E. Shepard, Pur. Agent; W. E. Shepard & Louis Shepard, Co-managers. 10-15,000 tons.

C—Toney Bros.

A partnership. George Daniels, Plant Mgr. 5,000 to 7,000 tons.

DOUGLAS

CD—Douglas Fertilizer Company

R. L. King, Pres.; Hoke Smith, Sec. and Treas. 8,000 tons.

DUBLIN

C—Carroll Fertilizer Company

Cecil E. Carroll, Owner; Mendell Johnson, Plant Mgr. 5,000 tons.

CJ—Lovett & Brinson, Inc.

601 E. Jackson St. W. H. Lovett, Pres.; W. E. Lovett, Vice-Pres.; W. W. Brinson, Sec. & Treas. & Pur. Agent; A. H. Wommack, Plant Mgr. 10,000 tons.

CFJ—Roche Manufacturing Company

W. P. Roche, Owner; Alvis Payne, Plant Mgr. 5,000 tons.

C—The Southern Cotton Oil Company

Main Office, New Orleans, La. R. C. Garrard, Mgr., Dublin, Ga.

EAST POINT

B—International Minerals & Chemical Corp.

Sales Office, Plant, W. L. Baughcum, Area Mgr.; B. L. Garrett, Dist Sales Mgr.; O. A. Dixon, Sou. Prod. Supervisor; J. R. Archer, Chief Chemist; Cameron Sinclair, Plant Supt.

B—Tennessee Corporation

J. K. Plummer, Gen. Mgr. 75,000

tons. General Office 61 Broadway, New York City.

EDISON

CD—Fidelity Products Company

Partnership: T. N. Wiggins, Partner and Manager. 3,000 tons.

FAYETTEVILLE

Redwine Bros.

H. P. Redwine, Pres. & Pur. Agent; C. D. Redwine, Vice-Pres.; H. R. Redwine, Sec. & Treas.; W. F. Farr, Plant Mgr. Home Office—Plant Tyrone, Ga.

FITZGERALD

C—The Ben Hill Company

J. J. Dorminy, Pres.; J. H. Dorminy, Jr., Vice-Pres.; W. L. Dorminy, Sec. & Treas. 1,500 tons.

C—Planters Warehouse & Loan Company

James E. Hale, Pres. & Treas.; J. H. Dorminy, Jr., Vice Pres.; W. A. Troun, Sec.; James E. Hales, Plant Mgr. 4,000 tons.

FORT GAINES

C—The Southern Cotton Oil Company

Main Office, New Orleans, La. L. M. Ray, Mgr.

FORT VALLEY

C—The Fort Valley Oil Company

P. O. Box 667. D. C. Strother, Pres. & Treas.; E. M. Whiting, Vice Pres. & Sec.; Felton Spinks, Plant Mgr.; E. M. Whiting, Pur. Agent. 10,000 tons.

GAINESVILLE

C—The Tennessee Corporation

J. K. Plummer, Gen. Mgr.; W. D. Barton, Sales Manager. Dry Mix 15,000 tons.

GRIFIN

CFJ—Newton Crouch

Newton Crouch, Owner; Robt. E. Chappel, Mgr.; J. H. Crouch, Asst. Mgr.; Wilson Bunn, Supt. 15,000 tons.

CGHJ—A. F. Gossett & Sons

Partnership, A. F. Gossett, Alex S. Gossett, Gen. Mgr.; Alex S. Gossett, Pur. Agent; H. H. Gossett, Mgr. Pesticide Div. Plant Mgr. 3,000 tons.

CF—Johnson Fertilizer Co., Inc.

Box 332. T. E. Johnson, Pres.; W. F. Johnson, Vice-Pres.; Martha Johnson, Sec. & Treas.; Roger Scott, Plant Mgr. Plant Williamson Road, Box 332.

Roger Scott, Mgr. Pesticide Div. 5,000 tons.

JACKSON

C—Nutt & Bond, Inc.

V. H. Ham, Pres. & Mgr.; Miss Helen Thornton, Sec.; H. G. Harris Plant Supt. 2,000 tons.

JEFFERSON

C—Carter Fertilizer Co.

James Carter, Pres. & Mgr. 1,500 tons.

LAGRANGE

B—Swift & Company, Plant Food Division

A. L. Wiley, Mgr. Sales office, 33 Hunter St., S.W., Atlanta, Ga.

LAVONIA

D—The Southern Cotton Oil Co.

Main Office, New Orleans, La. H. H. Bonner, Mgr.

LEARY

CF—The Farmers Warehouse Company

W. H. Jordan, Owner; Wilson Owen, Jr., Plant Mgr. 12,000 tons.

LOUISVILLE

CF—Louisville Fertilizer & Gin Company

R. N. Wigham, Pres.; Phillips Abbott, Vice-Pres.; K. H. Brown, Vice Pres. & Mgr.; R. L. Scruggs, Supt.; K. H. Brown, Pur. Agent. 10,000 tons.

CD—Vidette Fertilizer Company

P. O. Box 362. W. J. Alexander, Pres. & Mgr. 750 tons. Plant at Vidette.

McDONOUGH

CD—Turner & Alexander, Inc.

Geo. C. Alexander, Vice-Pres. & Mgr. 1,000 to 2,000 tons.

McRAE

C—The Southern Cotton Oil Company

Main Office, New Orleans, La. W. G. Parrish, Mgr. McRae, Ga.

MACON

C—Central Georgia Fertilizer Company

350 Poplar St., Joe B. Hill, Sec. & Treas.; W. Joe Holt, Plant Mgr. 10,000 tons.

A—Cotton States Fertilizer Company

C. B. Clay, Pres.; W. J. O'Shaughnessy, Sec. & Treas.; R. E. Lucas, Supt. 20,000 tons sulphuric acid, 40,000 tons superphosphate, 35,000 tons mixed fertilizer.

A—F. S. Royster Guano Company

C. F. Burroughs, Pres.; W. T. Wright, F. S. Moore, F. S. Royster, Jr., Vice-Presidents; C. F. Burroughs, Jr., Treas.; Sheppard R. Cooke, Sec.; O. O. Banton, Sou. Dist. Supt.; John P. Porter, Mgr.; E. A. Hall, Plant Mgr., Atlanta Sales Office, 50,000 tons.

D—The Southern Cotton Oil Company

Main Office, New Orleans; District Office, Macon, Ga. Manufacture and sales at following points: Allendale, S. C.; Athens, Ga.; Cartersville, Columbus, Cordele, Dawson, Dublin, Ft. Gaines, Lavonia, Macon, McRae, Savannah, Tifton, Valdosta.

MADISON

C—Mason Gin and Fertilizer Company

C. R. Mason, Pres.; C. L. Mason, Sec. and Treas. 3,000 tons.

MANCHESTER

CFJ—James S. Peters Fertilizer Company

J. S. Peters, owner; Harrison W. Bray, Mgr.; Robert J. Brown, Plant Mgr. 6,500 tons.

MEIGS

CFJ—J. L. Pilcher and Sons, Inc.

J. L. Pilcher, President; Chas. C. Pilcher, Vice-President; R. E. Johnson, Sec. & Treas.; J. S. Parkman, Plant Mgr. 6,000 to 8,000 tons.

C—Standard Fertilizer Company

Leo Wilkes, Pres.; Tom Tipton, Vice-Pres.; Eleanor W. Worling, Sec.-Treas.; J. T. Fields, Plant Mgr.; Leo Wilkes, Pur. Agent. 5,000 tons.

MILLEN

C—The Millen Fertilizer Company

E. M. Thorne, Vice-President; 5,000 tons.

MILLHAVEN

CG—Millhaven Company

G. B. Lorimer, Owner. 75 tons daily. Dry Mixing Plant.

MONROE

CFJ—H. M. Arnold Fertilizer Company

H. M. Arnold, Pres. and Treasurer; Mrs. H. M. Arnold, Vice-Pres.; G. A. Lewis, Sec.; Roy Willingham, Plant Mgr. 12,000 tons.

CF—Monroe Oil & Fertilizer Company

J. T. Preston, Pres.; C. E. Harris, Sec. and Treas. 7,000.

MONTICELLO

DEJ—Benton Supply Company

L. O. Benton, Jr., Pres.; Mrs. Martha M. Warren, Vice-Pres.; L. O. Benton, Jr., Treas. & Pur. Agent; Ernest Blackwell, Plant Supt. 1,500 tons.

CJ—The Farmers Union Warehouse Company

Fobel St. D. N. Harvey, Pres.; H. G. Cress, Vice-Pres.; Herschel Allen, Sec. and Treas.; E. S. Goolsby, Mgr. also Mgr. E. S. Goolsby, Pesticide Div. 2,000 tons.

MOULTRIE

CF—Shepard Fertilizer Company

P. O. Box 329. W. E. Shepard & Louis Shepard, co-managers. Guyte McLendon, Plant Supt.; W. E. Shepard, Prod. Mgr. Two plants 900 each. Moultrie & Doerun, Ga. 10,000 tons each plant.

ABFJ—C. O. Smith Guano Company

P. O. Box 69. C. O. Smith, Sr., C. O. Smith, Jr. and Jack C. Smith, partners; Allen Clements, Plant Mgr.; Frank Murphy, Jr., Prod. Mgr. Jack C. Smith, Mgr. Pesticide Div. 100,000 tons.

C—T. F. Taylor Fertilizer Works, Inc.

T. F. Taylor, Pres.; Faith T. Carter, Vice Pres.; T. F. Taylor, Treas.; Tommie S. Taylor, Sec.; T. F. Taylor, Pur. Agent; J. C. Hamby, Supt. 15,000.

NASHVILLE

CDFI—Berrien Product Co., Inc.

J. D. Tygart, President; W. W. Moore, Vice-President and Gen. Mgr.; J. H. Harvey, Board; Mrs. J. H. Harvey, Sec. & Treas.; Jas. A. Harnage, Plant Mgr.; Phin Avera, Prod. Mgr.; W. W. Moore, Pur. Agent & Mgr. Pesticide Dive. 10,000 tons.

NEWBORN

CF—Planters Warehouse Co. of Newborn, Ga.

H. C. Adams, Pres.; Mrs. Mary Adams, Vice Pres.; R. N. Adams, Sec. & Treas. 3,000 tons.

NEWNAN

C—Georgia Belle Guano Company

J. R. Brown, Pres.; M. C. Farmer, Vice-Pres.; H. A. McCoy, Sec. and Treas. 5,000 tons.

OCILLA

CDE—Ocilla Oil & Fertilizer Co.

Otto Griner, Pres. and Pur. Agent, M. V. Griner, Vice Pres. J. D. Paulk, Sec.-Treas. A. T. Owen, Plant Mgr. 10,000 tons.

OMEGA

CFJ—Omega Finance Co. and Omega Fertilizer Whs.

J. D. McCleod, Sr., and J. D. McCleod, Jr., Partners. A. J. Frazier Plant Mgr. Raymond Frazier, Prod. Mgr. J. D. McCleod, Jr. Pur. Agent. 6,000 to 10,000 tons.

PELHAM

A—Pelham Phosphate Company

P. O. Box 463

L. D. Hand, Pres.; F. D. Hollis, Vice-Pres.; F. B. Hand, Assistant to the President; J. A. Oxford, Sec.-Treas.; A. J. Cooke, Supt.; H. H. McDonald, Sales Mgr.

REYNOLDS

Doster Guano Company

N. B. Doster, Mgr. 5,000 tons.

CJ—Hinton & Co.

B. W. Hinton, owner; B. W. Hinton, Jr., Plant Mgr. 3,000 tons.

ROCHELLE

C—Mashburn & Fitzgerald

(Partnership) H. S. Fitzgerald Mgr. Fertilizer Dept. 1,000 tons.

ROME

D—The Southern Cotton Oil Company

Main office, New Orleans, La. C. H. Lumpkin, Mgr.

A—Virginia-Carolina Chemical Corp.

Rome, Ga. (Factory). General Offices: Richmond, Va.

ROYSTON

C—McConnell and Company

Hoke McConnell, Owner. 8,000 tons.

RUTLEDGE

CF—Rutledge Manufacturing Company

R. W. Wallace, Pres.; J. W. Hollis, Vice-Pres.; J. W. Herren, Treas.; J. L. Saye, Sec. & Plant Mgr. 4,000 tons.

SANDERSVILLE

CDFJ—Carr-Boatright

T. C. Carr, J. H. Boatright, partners. 4,000 tons.

SAVANNAH

A—The American Agricultural Chemical Company

P. O. Box 567. Sales Office and Factory. B. C. Griffin, Mgr.; C. R. LeCroy, Supt.

C—Blue Belt Fertilizer Company

P. O. Box 692. C. W. Smith, Pres.; C. B. Smith, Vice-Pres.; M. M. James, Sec. and Treas.; W. C. Hendrix, Plant Mgr. 20,000 tons.

KEY: A—Complete plant; B—Superphosphate, mixed fertilizers; C—Mixed fertilizer only; D—Sell goods manufactured for them;

CE—The Cotton Producers' Association

Main office, Atlanta, Ga. Siding on A. C. L. R. R. 20,000 tons.

BD—The Davison Chemical Corp.
Savannah Office:

P. O. Box 246. R. L. Hockley, Pres.; W. N. Watmough, Jr., Vice Pres.; M. C. Roop, Vice Pres.; Thomas J. Davis, Mgr. 40,000 tons.

C—The Moore Co.

P. O. Box 181. James N. Moore, Jr., Pres.; T. G. Moore, Vice Pres.; James N. Moore, III, Sec. & Treas.; E. W. Mathis, Plant Mgr. 3,000 tons.

B—Mutual Fertilizer Company

P. O. Box 666. Chairman of Board, Charles Ellis, Charles Ellis, Jr., Pres.; Chas. Ellis, Treas.; H. Danna Stevens, Sec.; J. J. Foran, Supt.; J. S. Salter, Prod. Mgr. 40,000 tons.

C—The Reliance Fertilizer Company

P. O. Box 529. John L. Cope, Pres.; James E. Cope, Vice Pres. & Treas.; H. F. Precht, Sec. M. G. Waters, Sr. 25,000 tons.

A—Southern Fertilizer & Chemical Company

P. O. Box 1158. A. D. Strobar, President W. Dewey Cooke, Vice Pres., Sec. & Treas. Allen D. Brent, Vice President—Production. W. W. Harley, Vice President—Sales. C. E. Donnelly, Plant Mgr. Herbert Respass, Prod. Mgr.

D—The Southern Cotton Oil Co.
Main Office, New Orleans, La., U. F. Stewart, Mgr., Savannah, Ga.

A—Southern States Phosphate & Fertilizer Co.

F. R. Dulany, President & Treas.; W. H. Read, Vice Pres.; F. D. Bishop, Vice Pres.; Mrs. Mary D. Lovett, Sec. R. B. Baldridge, II, Plant Mgr. J. D. Lee, Prod. Mgr. 150,000 tons.

C—Swift & Company, Plant Food Division

Paul Reynolds, Mgr., Savannah, Ga.

A—Virginia-Carolina Chemical Corp.

Savannah, Ga. (Sales Office and Factory).

General Offices: Richmond, Va

SENOIA

CE—C. P. Daniel's Sons

F. P. Daniel, Partner. E. E. Caldwell, Plant Mgr.; F. P. Daniel, Prod. Mgr. 5,000 tons.

C—P. R. McKnight Gin & Son Co.
P. R. McKnight, Owner; J. C. Johnson, Supt. 1,000 tons.

SHELLMAN

C—Shellman Home Mixture Guano Company

C. T. Martin, Pres.; M. H. Triple, Supt. & Mgr. 3,000 tons.

SOCIAL CIRCLE

CDFJ—Circle Mfg. Company

Owned by Duval and Company. G. M. Duval, Jr., Pres.; Fred B. Duval, Vice-Pres.; L. Stanton Duval, Sec. & Treas. 3,000 tons.

SOPERTON

CF—Soperton Guano Company

J. E. Hall, Pres.; J. B. O'Connor, J. E. Hall, Jr., Vice-Pres. & Mgr.; R. E. Ward, Asst. Treas.; Sidney Smith, Plant Mgr. 4,000 tons.

STAPLETON

C—J. P. Rabun

J. P. Rabun, Sole Owner and operator. 150 tons mixed goods.

STATESBORO

CJ—Smith Fertilizer Company

H. Z. Smith, sole Owner. Joe C. Fuller, Plant Mgr.; H. Z. Smith, Jr., Mgr. Pesticide Div. 3,000 tons.

SWAINSBORO

CFJ—Coleman Gin & Fertilizer Company, Inc.

Box 107. J. D. Fields, Vice-Pres. & Pur. Agent; Ruth Flanders, Sec. & Treas.; John A. Fields, Plant Mgr. 2,000 tons.

SYLVANIA

CF—Evans, Reed and Williams

Partners: David W. Reed, J. P. Evans, H. A. Williams, Jr.; Fred Jenkins, Geo. Lee, Plant Mgrs. 8,000 tons.

C—Screveen Oil Mill

P. H. Brewster, Pres.; Gordon Thompson, Plant Mgr. 5,000 tons.

SYLVESTER

CE—The Cotton Producers' Association

Main Office, Atlanta, Ga.; siding on G. A. S. & C., and A. C. L. Ryws. 6,000 tons.

THOMASVILLE

CF—Thomasville Fertilizer Company

Box 417. J. R. Alexander, Pres.; J. E. Sanders, Sec. & Treas.; Ivan B. Stegall, Plant Mgr. 7,000 tons.

THOMSON

CHJ—McDuffie Oil and Fertilizer Company

Paul A. Bowden, Pres. 4,000 tons.

TIFTON

B—International Minerals and Chemical Corp.

Plant, T. M. Freeman, Supt. D—The Southern Cotton Oil Company

Main Office, New Orleans, La. J. C. Tedford, Mgr., Tifton, Ga.

TYRONE

CFJ—Redwine Brothers Fert.

H. P. Redwine, Pres.; C. D. Redwine, Vice Pres. W. F. Farr, Plant Mgr. 6,000 tons.

VALDOSTA

A—Georgia Fertilizer Company

R. L. King, Pres. and Gen Mgr.; Hoke Smith, Vice-Pres., Sec. and Treas.; W. J. Culpepper, Plant Mgr.; R. L. King, Prod. Mgr. 75,000 tons.

VIDALIA

Vidalia Chemical Co.

(Owned by Sou. Fert. & Chem.) O. R. Swofford, Mgr. 26,000 tons.

D—The Southern Cotton Oil Co.
Main Office, New Orleans, La. P. G. Walker, Mgr., Valdosta, Ga.

VIENNA

C—Dooly Fertilizer Co.

N. E. Brown, Owner. 1,500 to 2,000 tons.

VILLA RICA

CDJ—Villa Rica Oil Mills, Inc.

P. O. Box 128. 1,500 tons.

WARRENTON

C—The Southern Cotton Oil Co.

Main Office, New Orleans, La. W. M. Williams, Jr. Mgr.

WASHINGTON

CFJ—M. H. Barnett

M. H. Barnett, Pres. & Pur. Agent; Carl Sisson, Prod. Mgr. 2,500 tons.

Burdette Mill & Gin Company

Walter E. Burdette, (Owner).

WAYNESBORO

C—Waynesboro Fertilizer Co.

R. C. Neely, Jr., Pres. 2,000 tons.

WINDER

CJ—Southern Guano Co.

S. W. Draper, Pres.; C. O. Maddox, Sec. & Treas. 5,000 tons.

WRIGHTSVILLE

CJ—Lovett & Company, Inc.

W. H. Lovett, Pres.; W. E. Lovett, Vice-Pres.; Lewis L. Lovett, Sec.-Treas.; B. B. Blount, Supt.; Fred Tanner, Mgr. Pesticide Div. 2,000 tons.

ZEBULON

CF—Zebulon Gining & Fertilizer Company

A. W. Quattlebaum, Sec. & Mgr. (Subsidiary Southern Cotton Oil Co.) 10,000 tons.

IDAHO

BOISE

CDF—Cimota Enterprises, Inc.

Room 330, Sonna Bldg., E. V. Story, Pres.; Martha Richards Sec., D. Demaray, Plant Mgr. E. V. Storey, Pur. Agent. 36,000 tons.

CD—Soilife, Inc.

H. T. Hitt, Pres.; J. P. Gillmore, Vice Pres. & Gen. Mgr.; Conover Wright, Treas.; D. C. Regan, Sec. & Prod. Mgr. 50,000 tons—Finished 300,000 Ton. Mine run. Minerals.

CALDWELL

CDEF—Simplot Soilbuilders

Division of J. R. Simplot Co., Ralph Nyblad, Gen. Mgr. L. Davis, Plant Mgr. 10,000 tons.

IDAHO FALLS

DFCHIJ—Idaho Falls Bonded Produce & Supply

Box 337, A. G. Stanger, President, Marshall Keyes, Pur. Mgr.; Francis Nelson, Plant Mgr. Mix 40 tons a day.

EFGHIJ—Simplot Soilbuilders

Division of J. R. Simplot Co. Jack L. Wursten, Gen. Mgr. 10,000 tons.

Utah Idaho Sugar Co.

David O. McKay, Pres.; Douglas Scalley, Vice Pres.; T. Wm. Cockayne, Sec. & Treas.; D. H. Thomas, Pur. Agent. 4,000 to 5,000 tons.

LEWISTON

CIJ—North Idaho Chemical Co., Inc.

P. O. Box 622, Chas. A. Fite, President & Plant Mgr.; F. C. Hassinger, Vice Pres.; Allvee I. Fite, Sec. & Treas.; Chas. A. Fite, Plant Mgr. Also Mgr. Pesticide Div. 5,000 tons.

NAMPA

CJ—Lewis Yoder Company, Inc.

John L. Yoder, Pres.; James G. Yoder, Vice-Pres.; Doris Wohlgemuth, Sec. & Treas.; K. Mizuguchi, Plant Mgr.; James G. Yoder, Pur. Agent.

POCATELLO

BFGJ—J. R. Simplot Co.

Box 912, J. R. Simplot, Pres.; R. I. Troxell, Exec. Vice Pres.; John Dahl, Sec. L. M. Butler, Mgr. E. W. Hansen, Sales Mgr. Austin Richins, Paul Stocks, Plant Supt. 90,000 Tons Triple Super-Phosphate.

RUPERT

Simplot Soilbuilders

Div. of J. R. Simplot Co., C. E. Brissenden, Whse. Mgr. 5,000 tons.

TWIN FALLS

C—Idaho Organic Fert. Co., Inc.

Moron Fertilizer Co.

CDEFGHJ—Simplot Soilbuilders

Division of J. R. Simplot Co. 700 Shoshone St. West, J. D. McCollum, Gen. Mgr. John Allen, Whse. Mgr. Twin Falls, C. E. Brissenden, Whse. Mgr. Rupert, Idaho, John Allen, Prod. Mgr., Twin Falls 20,000 tons Rupert 5,000 tons.

WENDELL

AEG—Gates Brothers, Inc.

Chas. T. Gates, President. F. Quincy Gates, Sec. & Treas.; George F. Wilkins, Gen. Mgr. 7,000-18,000 Triple phosphoric acid.

ILLINOIS

CAIRO

CD—Darling & Co.

H. E. Causey, Plant Mgr.; E. K. Mitchell, Cashier. 20,000 tons. 000 tons.

CALUMET CITY

A—Swift & Company

Plant Food Division, K. Wagener, Mgr.

CENTRALIA

GHJ—Farmers Liquid Nitrogen Co.

James D. Wrape, Pres.; R. S. Reeves, Vice Pres.; Vernon Riechman, Sec. & Treas.; John Kuhn, Plant Mgr. 500.

CHICAGO

C—Darling & Company

4201 S. Ashland Ave. A. R. Bethke, Asst. to Pres.; G. K. Walton, Mgr. Fertilizer Div.

BDG—Illinois Farm Supply Co.

100 E. Ohio St. W. Brooks, Plant Mgr. 50,000 tons. Gen office only.

The International Minerals & Chemical Corporation

Main Office, 20 N. Wacker Drive; Louis Ware, President; James P. Margeson, Jr., Exec. Vice-Pres.; Maurice H. Lockwood Vice-Pres. Plant Food Div.; Robert P. Resch, Vice-Pres. and Treas. Financial Div.; George W. Moyers, Vice-Pres. Phosphate Div.; A. Norman Into, Vice-Pres. Potash Div.; Dr. Paul D. V. Manning, Vice-Pres. Research Div.; Edward D. McDougal, Jr., Vice Pres. & Gen. Counsel; Norman J. Dunbeck, V. P. Industrial Minerals Div.; T. M. Ware, V.P. Engineering Div.; Edward

Tubbs, Comptroller; J. P. Burrows, Gen. Purchasing Agent; A. C. Thornton, Industrial Relations Mgr.; E. J. Landis, Gen. Traffic Mgr.; Stacy C. Thompson, Gen. Credit Mgr.; J. F. Stough, Sales Mgr. Plant Food Div.; F. H. Perrin, Production Mgr. Plant Food Div.; F. S. Walters, Northern Prod. Supervisor Plant Food Div.; Dr. R. P. Thomas, Mgr. Technical Service; R. A. MacDonald, Mgr. Project Development; H. F. Lange, Chief Engineer Plant Food Div.; Rufus G. Hartig, Chemical Production Supervisor.

Spencer Chemical Co.
Chicago, Ill.

Swift & Company, Plant Food Division

John Holmes, Pres.; C. T. Prindle, Vice Pres.; A. L. Bruckner, Treas.; W. H. Souter, Sec.; A. F. Miller, Gen. Mgr.; R. S. Rydell, Pur. Agent, Plant Food Div. Main Office; Union Stock Yards.

Victor Chem. Whs.

141 W. Jackson Blvd. Zone 4 Dry Mixer, 1,000 tons annually.

C—Wilson & Company

4100 S. Ashland Ave. Edward Foss Wilson, Pres.; F. K. Foss, Vice-Pres.; Paul Ware, Sec.; L. Selle, Mgr. Fertilizer Dept. 10,000 tons.

CHICAGO HEIGHTS

A—Armour Fertilizer Works

Pierce Vandercrook, Div. Mgr. General Office, Atlanta, Ga.

B—International Minerals & Chemical Corp.

Sales Office, Plant. J. D. Zigler, Area Mgr.; E. T. Potterton, Dis. Sales Mgr.; D. B. Rust, Supt.

CONGERVILLE

CDEFGHJ—Schrock Fertilizer Service Div. of Schrock Bros. Co.

J. B. Schrock, Pres.; A. J. Schrock, Vice-Pres. & Treas.; E. C. Rokey, Sec.; Reid White, Plant Mgr. A. J. Schrock, Prod. Mgr. Kenneth Cross, Pur. Agent-Mgr.; Kenneth Cross, Pur. Agent; Josh Fuller, Mgr. Pesticide Div. 8,000 tons Mixed Goods. Factory at Monica.

DANVILLE

G—The Buhner Fertilizer Co., Inc.

M. R. Buhner, First Vice Pres.; Box 152. F. F. Buhner, Pres.; E. J. Buhner, Sec. & Treas.; C. R. Sparks, Vice-Pres. & Gen. Mgr.; F. G. Smith, Sales Mgr.; Jack R. Rewerts, Plant Mgr.; Raymond Clark, Supt. 75,000 tons.

Federal Chemical Co.

KEY: A—Complete plant; B—Superphosphate, mixed fertilizers; C—Mixed fertilizer only; D—Sell goods manufactured for them;

DECATUR

DGH—Safe-Way Fertilizer Co.
P. O. Box 607. Hunter C. Moody & E. H. Moody, Partners; C. Dale Riley, (Dalton City) E. C. Abbott, Pur. Agent.

EAST ST. LOUIS

B—Armour Fertilizer Works
F. M. Hudson, Div. Mgr. General Office, Atlanta, Ga.

B—Darling and Company
4201 S. Ashland Ave., Chicago. Plants at: East St. Louis, Ill., Chicago, and Cairo, Ill. A. R. Bethke, Asst. to Pres.; G. K. Walton, Mgr. Fert. Division.

B—Illinois Farm Supply Co.
Fred E. Herndon, President; R. O. Almgreen, Treas.; Kenneth Wohlford, P. I. a n t Mgr. 50,000 Tons.

B—Virginia-Carolina Chemical Corp.
E. St. Louis, Ill. (Sales Office and Factory). General Offices: Richmond, Va.

FULTON

A—The American Agricultural Chemical Company
Sales & Factory, P. O. Box 150. J. J. Doyle, Supt.; F. A. Gezel, Mgr.

GRANITE CITY

Smith Rowland Company, a Division of Smith-Douglass Co., Inc.

R. B. Douglass, Pres. & Treas.; J. A. Monroe, W. B. Copeland, J. H. Culpepper & W. R. Ashburn, Vice-Pres.; W. F. Powers, Treas.; V. J. Kovarik, Mgr.; S. L. Lott, Asst. Treas.; L. H. Jackson, Asst. Sec. 25,000 tons nitrogenous tankage.

HENRY

EGHJ—Service Fertilizer Corporation
Box 306. John R. Brown, Pres.; E. K. Martin, Sec.; E. K. Martin, Pur. Agent, 2525 S. 50th Ave., Cicero, Ill.

MORRIS

C—Gilchrist Plant Food Co.
525 W. Washington St. Donald Gilchrist, Pres.; Ruth Gilchrist, Sec. 5,000 tons.

NATIONAL STOCK YARDS

A—The American Agricultural Chemical Company
Box E. Sales Office and Factory. J. W. Engle, Mgr.; R. M. Crain, Supt.

B—Swift & Company
Plant Food Division. A. N. D'Aubert, Mgr.

PEORIA

Manito Filler Company, Inc.

L. H. Erler, Pres.; Mrs. W. W. Furey, Vice-Pres. and Treas.; Jno. C. Kocsoban, Sec. 5,000 tons. Produce organic earth used as a filler and conditioner in the mfg. of mixed fertilizer. 5,000 tons.

STREATOR

ABCD—Smith-Douglass Co., Inc.

Main Office P. O. Box 419, Norfolk, Va. R. B. Douglass, Pres. & Treas.; W. B. Copeland, J. A. Monroe, J. H. Culpepper & W. R. Ashburn, Vice Presidents; W. F. Powers, Sec.; S. L. Lott, Asst. Treas.; L. H. Jackson, Asst. Sec. All of Norfolk, Va.

TUSCOLA

FGHJ—Central Illinois Plant Foods, Inc.

Plant at Newman, Ill. C. R. Ware, Pres.; Wm. H. Rosso, Vice Pres. & Mgr.; S. L. Victor, Sec.-Treas.; Perry C. Stockhouse, Director; Wm. H. Rosso, Plant Mgr. 400 tons Anhydrous Am.

VIOLA

Agriculture Supply Company

Box 36. Edward A. Young, Owner and Marie C. Young, Sec. & Treas. Dry Mixing.

INDIANA

BRIDGETON

CI—Benson-Maclean

W. L. Benson, E. I. Killion. Starter solution & Soluble Pellet & powder Plant Food for Home Garden, Nursery, Florist, Market Grower, & Cannery Grower. Commercial Compost & organic fertilizers.

BUTLER

C—Longaker Mills, Inc.—(Div. of Federal Chem. Co.)

300 Depot St. J. D. Stewart, Jr., Pres.; J. T. Marshall, Vice Pres.; G. W. Shields, Treas.; Floyd Lucas, Sec.; J. T. Marshall, Plant Mgr.; Walter Harding, Pur. Agent. 5,000 tons.

CHALMERS

DEFGH—M. B. Raub Agency

P. O. Box 207. M. B. Raub, Owner. 400 tons.

COLUMBIA CITY

C—Ind. Farm Bur. Coop. Assn., Inc.

Robert Leach, Supt.; A. R. Mullin, Prod. Mgr. 40,000 tons. (Ad-

dress all mail to: A. R. Mullin, Indianapolis, Ind.) 10,000 tons.

EVANSVILLE

CGJ—J. A. McCarty Seed Company, Partnership

J. A. McCarty, Mrs. J. A. McCarty, James A. McCarty, Geo. K. Black, Prod. Mgr.; Virginia Crawford & Nell Martin—Partners. Geo. K. Black, Mgr. Pesticide Div. 1,500 tons.

FORT WAYNE

B—Virginia-Carolina Chemical Corp.

Ft. Wayne, Ind. (Factory). General Offices: Richmond, Va.

DJ—Wayne Bush Feed Co.

114 W. Columbia St. J. W. Bush, Owner.

FOWLER

CFGHJ—Senesac Soil Service

W. A. Senesac, Mgr.; Ralph Puetz, Plant Mgr.

FRANCESVILLE

Gutwein Agric. Service, Inc.

5,000 tons.

GREENSBURG

C—Kova Fertilizer, Inc.

7th and Anderson Sts. Francis W. Reed, Pres. & Treas.; Lowell W. Headlee, Vice-Pres.; Marie T. Goddard, Sec.; Francis W. Reed, Plant Mgr. 10,000 tons.

HOBART

CGJ—American Brand Fertilizer Co.

John Greenberg, President.

INDIANAPOLIS

B—Indiana Farm Bureau Cooperative Association, Inc.

47 S. Pennsylvania St. John P. Curry, Pres.; C. E. Moseley, Vice-Pres.; W. Kenneth Miller, Treas.; Marvin R. Bradley Sec.; Arthur R. Mullin, Prod. Mgr.; Ben R. Scharrer, Supt. Jeff. 40,000 Indpls. 90,000 tons.

B—Kingsbury & Company, Inc.

Geo. H. Kingsbury, Pres.; Elw. D. Kingsbury, Vice-Pres.; James L. Schell, Sec.-Treas.; M. H. Talbott, Supt.; Ivan Mills Div. Mgr. H. O. O'Neill, Supt. 40,000 tons.

B—E. Rauh & Sons Fertilizer Company

Indianapolis Stockyards. S. J. Martenet, Pres.; R. D. Martenet, Executive Vice-Pres.; J. J. Weldon, Treas.; H. M. Lee, Sec.; L. E. Little, Vice-Pres. Production.

B—F. S. Royster Guano Company

C. F. Burroughs Pres.; F. S. Moore, W. T. Wright, F. S. Royster, Jr., Vice-Presidents; C.

F. Burroughs, Jr., Treas.; Shepard R. Cooke, Sec.; M. V. Ray, Mgr., Indianapolis Sales Office; P. H. Keiner, Supt. 60,000 tons.

B—The Smith Agricultural Chemical Co.

Div. Mgr., Wm. F. Farley; Vice Pres., Indianapolis, Glenn Webster, Supt. 10,000 tons. General Office, Columbus, Ohio.

DG—Aldredge Industrial Oils, Inc.
Liquid Fertilizer.

JEFFERSONVILLE

C—Armour Fertilizer Works

Sales Office, Cincinnati, Ohio
B. F. Sutherland, Div. Mgr.
General Office, Atlanta, Ga.

B—Ind. Farm Bur. Coop. Assn.

All mail address to: R. A. Mullin, Indianapolis, Ind. Ralph V. Middaugh, Supt.; A. R. Mullin, Prod. Mgr. 40,000 tons.

NEW ALBANY

C—The Davison Chemical Corporation

Box 147. (Hopkins Fertilizer Division) Branch, Baltimore, Md.; J. L. Gayle, Plant Mgr.; Major Hancock, Prod. Mgr. 50,000 tons.

BH—Tennessee Corporation

L. J. Pettett, Gen. Mgr. 30,000 tons. General Office, 61 Broadway, New York, New York.

PERU

C—Kingsbury & Company, Inc.
Geo. H. Kingsbury, Pres.; Edw. D. Kingsbury, Vice-Pres.; James L. Schell, Sec.-Treas.; Ivan Mills, Div. Mgr.; Harvey E. O'Neill, Supt.

PLYMOUTH

E. Rauh & Sons
50,000 tons.

RENSSELEER

Jasper County Service Coop.
Bulk Mfg. only. 5,000 tons.

RUSHVILLE

C—The Norris Fertilizer Company
P. J. Prosser, Pres.; L. A. Krebs, Vice Pres.; K. H. Renegar, Exec. V. Pres. & Gen. Mgr.; R. Bruce Golightly, Prod. Mgr.

C—V. W. Norris & Son, Inc.

130 E. 2nd St., Box 505. Alfred C. Norris, Pres.; Kenneth H. Cline, Vice-Pres.; Kathryn Norris, Sec. & Treas.; Walker Elliott, Plant Mgr. 15,000 tons.

SCHERERVILLE

B—Cooperative Plant Foods

P. O. Box 6. Arthur R. Mullin, Pres.; Milo Dahl, Vice-Pres.; L.

E. Quiram, Sec. & Treas.; Wm. H. Henderson, Prod. Mgr.; Dave Silverman, Controller. 60,000 tons. Main Office; Ind. Plant, Schereville, Ind.

SEYMORE

G—The Buhner Fertilizer Company

P. O. Box 239. F. F. Buhner, Pres.; C. R. Sparks, Vice-Pres. & Gen. Mgr.; E. J. Buhner, Sec. Treas.; Ray Vondelingen, Plant Mgr. 30,000 tons Seymour, Indiana & 50,000 tons Danville, Illinois.

IOWA

DES MOINES

CDGJ—Iowa Plant Food Co.

300 Farm Bureau Bldg.
200 S. E. 34th St.
E. Howard Hill, Pres.; Richard Stephens, Vice-Pres.; Donald B. Groves, Sec. & Treas.; E. O. Johnston, Gen. Mgr. 50,000 tons.
W. E. Lewellyn, Supt.; John S. Mark, Pur. Agent.

CJ—National Fertilizer Co. (Division of National By-Products, Inc.)

P. O. Box 615,
E. J. Lindhardt, Pres.; H. A. Ackerley, Vice Pres.; Fred D. Ioerger, Plant Mgr. 15,000 tons.

CF—Pioneer Phosphate Co., Inc. 125 S. W. 4th St.

John A. Roberts, Pres., Treas. & Pur. Agent.; Patricia H. Roberts, Vice-Pres.; Sumner M. Macomb, Vice-Pres., Sec. & Plant Mgr. 7,000 tons.

DUBUQUE

B—Virginia-Carolina Chemical Corporation

Dubuque, Iowa (Sales Office and Factory) Gen. Offices: Richmond, Va.

EAGLE GROVE

CD—Consumers Cooperative Association

Howard A. Cowden, Pres.; T. H. DeWitt, Vice-Pres.; Clifford Miller, Sec. & Treas.; Gordon Hoath, Gen. Mgr.; Rex Blankenship, Supt. 20,000 tons.

GRINNELL

CEFGH—Cornland Plant Foods

230 Park St., P. O. Box 276.
W. W. Venable & R. E. Sorenson Partners. James R. Lincoln, Plant Mgr. 25,000 tons Mixed Fertilizer.

HIGHVIEW

C—Agricultural Products Corp.

Office: 713 Des Moines St.
Webster City. Dry Mixer, 10,000 tons.

MASON CITY

A—International Minerals and Chemical Corp.

Sales Office Plant. J. W. Hicks, Dist. Sales Mgr.; Edward P. Ruszat, Supt.

Swift and Co.

Plant Food Division. Brick & Tile Bldg.

PERRY

AB—The Davison Chemical Corporation

P. O. Box 269. R. L. Hockley, Pres.; W. N. Watmough, Jr., Vice Pres., Mixed Fertilizer; Harold Clayton, Plant. Mgr.; C. C. Dorsey, Pur. Agent. 42,000 tons Mixed Fertilizer, 50,000 tons superphosphate.

POCAHONTAS

CD—Iowa Plant Food Co.

Sidney Bondurant, Supt. 6,500 tons.

WATERLOO

C—The Rath Packing Co.

R. A. Rath, Chair. of the Board; Howard H. Rath, Pres.; A. D. Donnell, Exec. Vice Pres.; John A. Muth, Ray S. Paul, Dale A. Kilpatrick, Vice Presidents; Joe Gibson, Vice Pres., Controller and Sec.; R. A. Brecunier, Treas.; Richard W. Rath, Asst. Treas.; John D. Donnell, Asst. Sec.; Willis R. Nesbit, Asst. Treas.; Cash J. Cahill, Plant Mgr. 40,000 tons.

WEBSTER CITY

D—Agricultural Products Corp.

713 Des Moines St. Cecil A. Johnson, Pres.; Karl H. Frantzen, Gen. Mgr.; Wendell Henderson, Plant Mgr. 10,000 tons. Plant Highview.

KANSAS

AUGUSTA

I—Soluble Plant Nutrients Co.

Mix and Blend Liquid Fertilizer Main Office, P. O. Box 305. Azusa, Calif.

CHAUNTE

CD—Neosho Fertilizer, Inc.

Box 259. Harry E. Davis, Gen. Mgr., Asst. Sec.; Shelton Prosp., Pres.; Kenneth Keas, Vice-President; Wm. A. Sailors, 2 Vice-Pres.; James F. Cooper, Treas.;

KEY: A—Complete plant; B—Superphosphate, mixed fertilizers; C—Mixed fertilizer only; D—Sell goods manufactured for them;

Robert Briley, Sec.; Ross Cooper, D. D. Mitchell, Directors; Harry E. Davis, Plant Mgr.; Russell Rodgers, Prod. Mgr. 20,000 tons.

HUTCHINSON

C—**Snyder Chemical Co., Inc.**

Office, Room 202 Garlinghouse Bldg., Topeka, Kans. Plants at North Halstead St. Hutchinson, Ks. and at Topeka, Ks. Jack B. Snyder, Pres. & Treas.; Leon F. Baker, Jr., Vice Pres. and Gen. Mgr.; Ruth C. Dixson, Sec.; Harold R. Krueger, Gen. Prod. Mgr.; Victor W. Keckler, Plant Supt. 25,000 tons.

JUNCTION CITY

C—**Kansas Agricultural Chemical Co., Inc.**

Box 293. Harold G. Safrin, Pres.; Ernest Bauman, Vice Pres.; Harold Safrin, Treas.; C. L. Hoover, Sec.; E. J. Mathson, Plant Mgr.; Harold G. Safrin, Pur. Agent. 25,000 tons.

KANSAS CITY

B—**Farm Belt Fertilizer & Chemical Co.**

C. H. Fluty, Gen. Mgr.; Doyle Patterson, Treas.; Vernon Kassemann, Sec.; Wm. G. Mautner, Plant Mgr.; M. W. Buzzan, Prod. Mgr. 35,000 tons.

LAWRENCE

C—**Kaw River Valley Fertilizer Co., Inc.**

Lawrence, Kansas (Gen. Offices P. O. Box 937, Joplin, Mo.) W. R. Thurston, Pres.; R. C. Simms, Vice Pres.; R. N. Johnson, Sec. & Treas.; Plant Supt. John Lampe; John W. Ground, III, Pur. Agent. 25,000 tons.

MARYSVILLE

C—**Blue Valley Fertilizer Company**

P. O. Box 188. Ralph L. Huffman, Partner; Wendell P. Glaspey, Partner; Walter T. Thompson, Partner; C. H. Koelling, Partner; Wendell P. Glaspey, Plant Mgr. 20,000 tons.

NEWTON

E—**Farm Fertilizers, Inc.**

W. P. Astle, Pres., Gen. Mgr.; K. C. Speir, Vice Pres., Gen. Counsel; G. J. Cox, Sec.-Treas.

PITTSBURG

C—**Spencer Chemical Co.**

R. F. Brown, W. R. McCluskey, Prod. Mgr.; L. D. Jones, Pur. Agent, Gen Works Mgr.; V. F. Hobart, Jayhawk Works Mgr., Pittsburgh.

SALINA

GH—**Nitro Fert. & Equipment Co.**

P. O. Box 522. G. M. McClellan, Pres.; C. L. Clark, Vice Pres.; B. W. Knowles, Sec. & Treas.; Ernest Domann, Plant Mgr. 30,000 Gallon Storage Plants.

Evans, Pur. Agent; W. A. Johnston, Plant Mgr. 73,000.

HOPKINSVILLE

CFG—**Cumberland Chemical Company**

P. O. Box 548. W. G. Duncan, III, Partner. D. S. King, Mgr.; Al C. Rutland, Factory Supt. 15,000 tons.

LEXINGTON

CF—**Burley-Belt Plant Food Works**

A. N. Peck & R. F. Terhune, Partners. M. E. Haney, Plant Mgr.; Henry Fair, Prod. Mgr. 20,000 tons.

LONDON

B—**Knoxville Fertilizer Co.**

James W. Dean, Pres.; W. B. Hudson, Newton C. Myers, Jr., Vice Presidents; A. Carter Myers, Treas.; Bennett E. Brown, Sec.; Raymond J. Rayfield, Supt.; Barney A. Tucker, Mgr. Bennett E. Brown, Pur. Agent. 30,000.

LOUISVILLE

Cooperative Service of Richmond, Inc.

P. O. Box 65, Camp Taylor Station. W. T. Steele, Jr., Pres.; A. Preston Sale, Jr., Exec. Vice Pres.; K. R. Eckles, Treas.; F. M. Armbrrecht, Comptroller; Jas. R. Ayers, Jr., Sec.; R. A. Allgood, Plant Mgr. 40,000 tons mixed fertilizer.

B—**Federal Chemical Company**

General Office, 646 Starks Bldg., Louisville 2, Ky. John V. Collis, Pres.; George W. Shields, Vice-Pres. & Comptroller; J. D. Stewart, Jr., Executive Vice-Pres.; W. Q. Harned, Treas.; John R. Sargent, Gen. Sales Mgr.; J. Walter Harding, Mgr. Traffic & Pur.

Plant & Sales Office, 1401 S. Hancock, Louisville 8, Ky. Jos. McGigue, Local Plant Mgr., Mixing and Ammoniating Plant; Division Sales Manager.

Plant & Sales Office, Columbus, Ohio. Carl E. Alkire, Local Plant Manager, Acidulating, Ammoniating & Mixing Plant; Plant & Sales Office, Nashville, Tenn. J. H. Ferguson, Local Plant Mgr., Acidulating, Ammoniating & Mixing Plant; Roy B. Nethery, Div. Sales Mgr.

Plant & Sales Office, Humboldt, Tenn., Local Plant Mgr. Ammoniating & Mixing Plant; R. M. Brown Div. Sales Mgr.

TOPEKA

C—**The Snyder Chemical Co., Inc.**

Office, Room 202 Garlinghouse Bldg., Topeka, Kansas Plant at Norris and North Clay, Topeka, Ks. and at Hutchinson, Ks. Jack B. Snyder, Pres. & Treas.; Leon F. Baker, Jr., Vice Pres. & Gen. Mgr.; Ruth C. Dixson, Sec.; Harold R. Krueger, Gen. Prod. Mgr.; Thomas R. Martin, Plant Supt. 25,000 tons.

WICHITA

CFGH—**Agricultural, Industrial & Domestic Products, Inc.**

J. C. Roark, Pres.; J. C. Fankhauser, Vice Pres.; K. E. Matthes, Treas.; W. M. Sondergard, Sec., Dry Mixing chemical materials.

C—**Wichita Fertilizers, Inc.**

P. O. Box 2337. Bernard Thompson, Pres.; Vernon Kassebaum, Sec.; Harold Wilson, Gen. Mgr.; Herbert Nuss, Office Mgr.; Harry A. Edmonds, Plant Mgr.; Cecil Fluty, Pur. Agent. 25,000 tons.

KENTUCKY

CYNTHIANA

C—**Blue Grass Plant Food, Inc.**

Osmer S. Deming, Pres.; Gene Van Deren, Vice-Pres. & Treas.; A. M. Van Deren, Sec. W. C. Curry, Jr., Plant Mgr. Capacity 25,000 tons.

DANVILLE

CF—**Blue Grass Plant Foods, Inc.**

Gene Van Deren, Vice Pres. & Gen. Mgr.; Osmer S. Deming, Pres.; A. M. Van Deren, Sec.; Zach P. Smith, Plant Mgr.; Glenwood Crowe, Prod. Mgr. 25,000 tons.

ELIZABETHTOWN

GH—**E-Town Anhydrous Ammonia Co.**

P. O. Box 143. Partnership, owned by L. T. Dixon and W. O. White under construction.

HENDERSON

C—**Soencer Chemical Co.**

K. A. Spencer, Pres.; C. Y. Thomas, J. P. Miller, J. R. Riley, Vice Presidents; J. P. Miller, Treas.; Arthur Mag, Sec.; J. C. Denton, Plant Mgr.; J. A. Woodside, Prod. Mgr.; J. M.

Phosphate Rock Mines, Washer Plant, Mt. Pleasant, Tenn.

C—North American Fertilizer Company

Preston & Bergman Sts. Walter Crady, Pres.; E. F. Crady, R. W. Conlee, Vice-Pres.; E. H. Schueler, Sec. and Treas.; Tom C. Bowser, Plant Mgr. 75,000 tons.

B—North American Phosphate Company

T. W. Crady, Pres. & Gen Mgr.; Arthur Beard, Vice-Pres.; A. C. Alt, Sec. & Treas.; F. O. Faith, Plant Superintendent. Manufacture Superphosphate. 50,000 tons.

C—Price Chemical Company

Miller's Lane Station H. John A. Miller, Pres.; W. M. Newman, Sec. and Treas.; Ralph E. Smith, Plant Mgr. 40,000 tons.

E—Tobacco By-Products and Chemical Corporation

(Factory General Office, Richmond, Va.)

MAYSVILLE

CF—Ohio Valley Fertilizer Corp.

P. O. Box 799
Douglas McLoney, Pres.; Herbert Moore, Vice Pres.; G. R. Nooe, Treas. & Gen. Mgr.; George Fisher, Plant Mgr.; Charles Tomlin, Prod. Mgr. 20,000 tons.

MURRAY

C—Hutson Chemical Co.

N. P. Hutson, Owner. 3,000 tons.

OWENSBORO

CFGHJ—Barlett & O'Bryan Fertilizer Co.

103 River Road. T. J. Bartlett & Wm. M. O'Bryan (Partnership)
Chas. Majors, Plant Mgr.; T. J. Bartlett, Pur. Agent. 15,000 tons.

RUSSELLVILLE

CF—Commonwealth Fertilizer Co., Inc.

J. A. Hicks, Pres.; N. H. Love, Vice Pres.; C. R. Boyd, Plant Mgr.; Leroy Burchett, Prod. Mgr.; N. H. Love, Pur. Agent. 10,000 tons.

SOMERSET

C—International Minerals & Chemical Corporation

Plant, H. C. Godsey, Supt.

WINCHESTER

Cooperative Fertilizer Service of Richmond, Inc.

P. O. Box 103. W. T. Steele, Jr., Pres.; A. Preston Sale, Jr., Exec. Vice Pres.; K. R. Eckles, Treas.

F. M. Armbrecht, Comptroller; Jas. R. Ayers, Jr., Sec.; Gene W. Cecil, Supt. Mixed 20,000; Super 20,000.

CFG—Kentucky Fertilizer Works

J. B. McConaughay, Owner.
Wm. H. Vaughan, Sales Mgr.; B. M. Dickerson, Prod. Mgr.; Ben Lipscomb, Supt.; Jas. B. McConaughay, Pur. Agent. 12,300 tons.

LOUISIANA

ARCADIA

CFJ—Arcadia Cotton Oil Company
Partnership of R. L. Taylor and G. C. Taylor. 15,000 tons.

BATON ROUGE

BEGI—Louisiana Agricultural Supply Co., Inc.

Box 843
W. F. Williamson, Sr., Pres.; E. L. Bruner, Vice-Pres.; W. F. Williamson, Jr., Treas.; W. S. Slaughter, Sec.; G. M. Slaughter, Plant Mgr.; W. F. Williamson, Pur. Agent; W. F. Williamson, Jr., Mgr. Pesticide Div.

BUNKIE

CHI—Guaranty Seed Co.

Roy J. Fontane, Owner & Mgr.; Charles Fontane, Asst. Mgr.; T. C. Armand, Plant Mgr. 10,000 tons.

Union Oil Co.

Box 149.

EUNICE

CJ—Kelly, Weber and Co., Inc.

Box 111,
Branch of Lake Charles, Willis P. Weber, Lake Charles, La., Pres.; Arthur L. Gayle, Lake Charles, La., Vice-Pres.; Alvin O. King, Lake Charles, La., Treas.; Floyd J. Vincent, Lake Charles, La., Sec.; Stewart P. Ross, Eunice, La., Plant Mgr. 20,000 tons.

CDFGH—"Pronto" Liquid Fert. Corp.

I. Edward Uzzo, Pres.; Phillip Uzzo, Vice Pres. and Treas.; Francis S. Muffoletto, Sec. Liquid Fertilizer.

FRANKLINTON

CDFJ—Green & Reedy Fertilizer Plant

Frank Reedy, Partner—Chester Green, Partner Herman Thomas, Plant Mgr.; Frank Reedy, Prod. Mgr.; Frank Reedy, Mgr. Pesticide Division. 15,000 tons.

GRETNA

CD—The Davison Chemical Corporation

P. O. Box 107. R. L. Hockley, Pres.; W. B. McCloskey, Vice Pres.; W. N. Watmough, Jr., Vice Pres.; M. C. Roop, Sec. & Treas.; J. H. Gaudet, Plant Mgr. 25,000 tons.

HARVEY

A—Swift & Company
Plant Food Division
A. Cooke, Mgr.

LAKE CHARLES

The Davison Chemical Corp.

Chairman of the Board, Chester F. Hockley, Vice Chairman of the Board, M. G. Geiger, Pres.; R. L. Hockley, Vice Pres. Mixed Fert. Div. W. N. Watmough, Jr. Vice Pres. Finance, M. C. Roop, Vice Pres. Marketing D. N. Hauseman, Vice Presidents, C. E. Waring, W. B. McCloskey & P. W. Bachman, Treas. J. E. Hardesty, Controller, F. J. Griffin, Pur. Agent, C. C. Dorsey.

BD—Kelly, Weber & Co., Inc.

P. O. Box 870. Arthur L. Gayle, Pres. & Gen. Mgr.; Voris King, Vice Pres.; Jean M. King, Treas.; F. J. Vincent, Sec. & Asst. Treas.; Jack D. Robinson, Supt. Fert. Plant; W. Gedge Gayle, Prod. & Gen. Mgr.; Charles T. Odum, Office Mgr.; W. Gedge Gayle, Pur. Agent. Annual 40,000 tons — Superphosphate 25,000 tons.

C—Lake Charles Feed Co., Inc.

Box 419.
A. L. Gayle, Pres.; A. O. King, Vice Pres.; F. J. Vincent, Sec. and Treas.; S. B. Parry, Mgr.; Roy Emmons, Supt. 10,000 tons.

Mathieson Chemical Corporation

Mathieson Industrial Chemicals Division. Ammonia & Nitrate of Soda Plant. Executive Offices: Baltimore, Md.

MINDEN

CJ—Minden Cotton Oil & Ice Co., Ltd.

Box 923.
J. B. Snell, Pres. and Mgr.; R. L. Taylor, Vice-Pres.; E. L. Lyon, Sec.; R. D. Miller, Plant Supt. 15,000 tons.

NATCHITOCHES

D—The Southern Cotton Oil Co.
Main Office, New Orleans, La.
S. M. Hart, Mgr.

NEW ORLEANS

The Davison Chemical Corp.

Chairman of the Board, Chester F. Hockley, V. Chairman of the Board, M. G. Geiger, President R. L. Hockley, Vice Pres. Mixed Fert. Div. W. N. Watmough, Jr., Vice Pres., Finance, M. C. Roop, Vice Pres. Marketing, D. N. Hausman Vice Presidents—C. E. Waring, W. B. McCloskey, P. W. Bachman, Treas. J. E. Hardesty, Controller, F. J. Griffin, Pur. Agent, C. C. Dorsey.

CD—The Southern Cotton Oil Co. Main Office, 210 Baronne St., New Orleans, La. A. Q. Petersen, Pres.; W. F. Guinee, Vice Pres.; M. W. Lyons, Vice-Pres.; L. C. Haskell, Vice-Pres.—Savannah, Ga.; E. A. Geoghegan, Vice Pres., New Orleans, La.; W. F. Hoerner, Sec.; C. M. Carrere, Treas.

CD—Farm Service, Inc. J. W. Anthony, Pres.; John Wood Anthony & W. H. Anthony, Vice Presidents; E. B. Anthony, Sec. & Treas.; Allen Richard, Plant Mgr. 25,000 tons.

RUSTON

C—Ruston Oil Mills & Fertilizer Co. Box 384. L. W. Ott, Pres.; F. E. Roney, Vice Pres., Shreveport, La.; Roy Cook, Sec., Ruston, La.; J. W. Thompson, Ruston, La. 5,000 tons.

SHREVEPORT

C—Dixie Fertilizer Co., Inc. P. O. Box 1111. S. M. Hackett, Pres.; Mrs. Georgie H. Chandler, Vice Pres. & Treas.; Mrs. Louise C. Foreman, Sec.; H. M. Bumgardner, Plant Mgr. 40,000 tons.

International Minerals & Chemical Corp. 418 Market St., Suite 504. H. C. Aaron, District Sales Mgr. Sales Office Only.

B—Shreveport Fertilizer Works Box #1. C. D. Shallenberger, Pres.; Stauerton B. Sample, Vice-Pres.; Ira E. Moss, Sec. & Treas.; F. H. Zimmerman, Plant Mgr. 75,000 tons.

B—Swift & Company Plant Food Division C. D. Smith, Mgr., Shreveport, La., Box 3055.

A—Virginia-Carolina Chemical Corporation Shreveport, La. (Sales Office and Factory). General Offices: Richmond, Va.

SHREWSBURY

A—Armour Fertilizer Works C. S. Livingston, Div. Mgr. General Office, Atlanta, Ga.

MAINE

BANGOR

C—Summers Fertilizer Company 194 Exchange St. Branch Office & Factory. J. E. Totman, Baltimore, Md., Pres. & Treas.; J. C. Totman, Mgr. Main Office Baltimore, Md. 5,000 tons.

BOWDOINHAM

C—Sagadahoc Fertilizer Co., Inc. J. E. Totman, Pres.; Wm. A. Fessler, Vice-Pres.; A. M. Fides, Treas.; F. P. Preti, Sec. 15,000 tons.

CALAIS

C—Summers Fertilizer Co., Inc. J. E. Totman, Baltimore, Md. Pres.; W. A. Fessler, Baltimore, Md. R. E. Fraser, Baltimore, Md. Vice-Pres.; N. K. Totman, Treas.; W. E. Dresser, Plant Mgr. Calais, Maine. 10,000.

CARIBOU

CIJ—Aroostook Federation of Farmers

22 Sweden St. P. J. Sullivan, Gen. Mgr. 25,000 tons.

C—Summers Fertilizer Co., Inc. Sales Office, J. E. Totman, Pres.; Ralph E. Fraser, Vice-Pres.; N. K. Totman, Treas.; H. G. Boutiler, Mgr. Main Office, Baltimore, Md. 5,000.

FORT KENT

CIJ—Aroostook Federation of Farmers 20,000 tons.

C—Economy Fertilizer Co., Inc. Bryan A. Young, Pres.; Norman A. Guy, Treas.; Byron A. Young, Plant Mgr. 1,000 tons.

HOLTON

The American Agricultural Chemical Company

Sales Office, J. J. Graham, Mgr.

C—International Minerals & Chemical Corporation

Plant, H. W. Frierson, Supt.

C—Summers Fertilizer Co., Inc. Sales Office and Factory. Victor Totman, Mgr. Main Office, Baltimore, Md. 5,000 tons.

MARS HILL

C—Summers Fertilizer Co., Inc.

Sales Office and Factory, M. J. Dickinson, Mgr. Main Office, Baltimore, Md. 5,000 tons.

PORLTAND

CD—Portland Rendering Company

Branch of Consolidated Rendering Co., Boston, Mass. R. I. Scherer, Mgr. 8,000 tons.

PRESQUE ISLE

Armour Fertilizer Works

Sales Office, H. H. Kirk, Div. Mgr. General Office, Atlanta, Ga.

C—Aroostook Hi-Test Fertilizer Company

137 Main St. T. R. York, Pres.; A. J. Beck, Vice Pres.; D. F. Cliff, Treas. & Gen. Mgr.; John J. Edmunds, Sec.; W. R. Edgecomb, Prod. Mgr.; G. N. Currie, Plant Mgr.; D. F. Cliff, Pur. Agent. 20,000 tons.

Consolidated Rendering Co.

Sales Office, A. E. Erickson, Mgr. General Office, 178 Atlantic Ave., Boston, Mass.

C—A. W. Higgins Co., Inc.

A. W. Higgins, Pres.; Harvey F. McGlaflin, Vice-Pres. & Treas. H. D. Jameson, Secy.; Darrol G. Kelley, Plant Mgr.; A. W. Higgins, Prod. Mgr. 20,000 tons.

DEGJ—Maine Potato Growers, Inc.

P. O. Drawer 271. Bryce M. Jordan, Gen. Mgr.; Frank W. Hussey, Pres.; Harley Welch, Vice Pres.; Brice M. Jordan, Treas.; Geo. V. Blanchard, Sec.; I. R. Wachlin, Pur. Agent.

SANDY POINT (STOCKTON)

C—Summers Fertilizer Co., Inc.

Factory, F. L. Litty, Gen. Mgr., Vice Pres. Main Office, Baltimore, Md. 50,000 tons.

SEARSPORT

C—The American Agricultural Chemical Company

Factory H. B. Young, Supt.

C—Armour Fertilizer Works

Sales Office, Presque Isle, Me. H. H. Kirk, Div. Mgr. General Office, Atlanta, Ga.

A—Northern Chemical Industries, Inc.

Factory and Branch Office, J. E. Totman, Pres. F. L. Litty, Vice-Pres. & Plant Mgr.; N. K. Totman, Treas. Main Office, Baltimore, Md. 80,000 tons.

SHERMAN

CIJ—Aroostook Federation of Farmers

5,000 tons.

MARYLAND

BALTIMORE

A—The American Agricultural Chemical Company

2272 So. Clinton St. Sales Office and Factory R. L. Waring, Jr., Mgr.; R. M. Richey, Supt.

C—Armour Fertilizer Works

415 Baltimore Life Bldg. L. J. Mitchell, Div. Mgr. General Office, Atlanta, Georgia.

A—The Baugh Chemical Company, Baltimore, Md.

B. H. Brewster, Chairman of the Board; P. J. Prosser, Pres.; H. Williams, Vice Pres. & Treas.; P. W. Sinwell, Vice Pres.; L. A. Krebs, Vice Pres.; V. J. Leahy, Vice Pres.; Benjamin H. Brewster, Jr., Vice Pres. & Asst. Sec.; Dorothy Q. Harper, Vice Pres. & Asst. Sec.; R. S. Hoffman, Sec. & Comptroller; A. T. Hoch, Superintendent.

C—The Baugh & Sons Company, Baltimore

25 S. Calvert St. B. H. Brewster, Chairman of the Board; P. J. Prosser, Pres.; H. Williams, Vice Pres. & Treas.; P. W. Sinwell, Vice Pres.; L. A. Krebs, Vice Pres.; V. J. Leahy, Vice Pres.; Benjamin H. Brewster, Jr., Vice Pres. & Asst. Sec.; Dorothy Q. Harper, Vice Pres. & Asst. Sec.; R. S. Hoffman, Sec. & Comptroller; A. T. Hoch, Superintendent.

AB—The Davison Chemical Corp.

101 N. Charles St. Chairman of the Board, Chester F. Hockley; Vice Chairman of the Board, M. G. Geiger; President, R. L. Hockley; Vice Pres. Mixed Fert. Div., W. N. Watmough, Jr.; Vice Pres. Finance, M. C. Roop; Vice Pres. Marketing, D. N. Hauseman; Vice Pres. C. E. Waring; Vice Pres., W. B. McCloskey; Vice Pres. P. W. Bachman; Treas., J. E. Hardesty; Controller, F. J. Griffin; Pur. Agent, C. C. Dorsey. Plants: Curtis Bay (Baltimore), Md.; Alliance, Ohio; Columbus, Ohio; Lansing, Mich.; New Albany, Indiana; Perry, Iowa; Nashville, Tenn.; Savannah, Ga.; New Orleans, La.; Lake Charles, La.; Cincinnati, Ohio; Bartow, Fla.

B—Fertilizer Manufacturing Cooperative, Inc.

1800 S. Clinton St. J. C. Crissey, Pres.; A. P. Sale, Jr., Vice-Pres.; A. M. Eno, Sec. & Treas.; Albert Spillman, Mgr.; H. L. Fader, Supt. 75,000 tons.

C—Griffith & Boyd Company

210 E. Redwood St. James E. Totman, Pres.; George A. Biddison, Vice-Pres.; N. K. Totman, Treas.; Wm. A. Fessler, Sec. Wm. B. Bird, Plant Mgr. 50,000 tons.

C—McCormick & Co., Inc.

414 Light St. Dry Mixer 100 tons. (small package). Charles P. McCormick, Pres.; James F. Welsh, Sec.;

Brooke E. Furr, Treas.; G. Douglas Reed, Plant Mgr.; Norman C. Settle, Prod. Mgr.; Lester W. Jones, Pur. Agent.

AEG—Mathieson Chemical Corporation

Mathieson Agricultural Chemicals Division. Sales Office: Court Square Bldg. A. H. Carpenter, Div. Sales Mgr. Fertilizer Plant: Curtis Bay. H. A. Koehler, Plant Mgr.; J. S. Whittington, Sales Mgr., Agricultural Chemicals, Morgantown Division. Executive Offices: Little Rock, Ark.

CGI—Miller Chemical & Fertilizer Corporation

2226 N. Howard St. W. Newton, Long, Pres.; Thos. L. Smith, A. T. Bradley, O. Neuman, Jr., A. G. Fischer, Vice Presidents; L. W. Cameron, Treas.; J. F. Miller, Sec.; A. G. Fischer, Plant Mgr.; L. S. Shaver, Pur. Agent. Plants: Hanover, Pa. & Whiteford, Md. 20,000 tons.

A—Northern Chemical Industries, Inc.

Totman Bldg., E. Redwood St. J. E. Totman, Pres.; F. L. Litty, Vice Pres. & Plant Mgr.; George Long, Pur. Agent.

CD—Plantabbs Corporation

1103 Maryland Ave. V. McC. Fulton, Pres.; D. H. Fulton, Jr., Vice-Pres. & Plant Mgr.; V. C. Tietz, Treas.; E. F. Casey, Sec. Mgr. Mixed Fertilizer in Tablet Form.

A—F. S. Royster Guano Company

C. F. Burroughs, Pres.; F. S. Moore, W. T. Wright, F. S. Royster, Jr., Vice-Presidents; C. F. Burroughs, Jr., Treas.; Shepard R. Cook, Sec.; M. F. Wright, Jr., Mgr., Baltimore Sales Office. E. N. Lacy, Supt. 100,000 tons.

CG—Shea Chemical Corporation

Baltimore, Md. Plants: Columbia, Tennessee; Adams, Mass. Vincent H. Shea, Pres. & Treas.; Walter C. Berger, Exec. Vice Pres.; John H. Lux, Vice Pres. in Charge of Research; O. D. Crosby, Columbia Plant; J. R. Durrell, Adams Plant, Adams: 30,000 tons. Columbia: 100,000 tons.

C—Summers Fertilizer Co., Inc.

Totman Bldg. J. E. Totman, Pres.; Wm. A. Fessler, Vice-Pres.; R. E. Fraser, F. L. Litty, Vice Pres.; N. K. Totman, Treas.; D. C. Zaiger, Sec.; J. C. Totman, Asst. Treas. Plants at Baltimore, Md.; Searsport, Maine; Sandy Point, Maine; Bangor, Maine; Houlton, Maine; Mars Hill,

Maine; Eastport, Maine; Sioux Falls, So. Dakota; St. Stephen, N. B., Canada; and Grand Forks, North Dakota. 250,000 tons. Wm. B. Bird, Baltimore, Md., Plant Mgr.; F. L. Litty—Searsport, Me. Plant Mgr.

C—Swift & Company

Plant Food Division. A. W. Langdon, Mgr., Curtis Bay, Baltimore 26, Md.

C—Virginia-Carolina Chemical Corporation

(Factory and Sales Office) General Offices: Richmond, Va.

CAMBRIDGE

CFG—The Dorchester Fertilizer Co.

Enos Valliant, Chairman of the Board; George P. Lippincott, Pres.; W. D. Gould, Vice Pres.; C. E. Edmondson, Sec.; J. Otis McAllister, Treas.; Seward Mende, Plant Supt. 20,000 tons.

CENTERVILLE

CF—E. S. Valliant & Son, Inc.

E. Stephens Valliant, Pres.; E. S. Valliant, Jr., Vice Pres.; J. Carl Starkey, Sec.; Wm. Hodgeson, Plant Mgr. 10,000 tons.

CHESTERTOWN

CH—Peerless Fertilizer Company, Inc.

Phillip P. Hall, Mgr. 8,000 tons.

CHEWSVILLE

C—Chewsville Co-Operative Assn., Inc.

Jno. A. Martin, Pres.; L. H. Needy, Vice-Pres.; G. Wm. Gardiner, Treas.; Clarence C. Frey, Plant Mgr.; Ernest W. Sensenbaugh, Pur. Agent. 2,000 tons.

CURTIS BAY

CD—Cooperative Fertilizer Service of Baltimore, Inc.

Box 303. H. A. Hanemann, Pres.; W. T. Steele, Jr., Vice-Pres.; K. R. Eckles, Treas.; Jas. P. Ayers, Jr., Sec.; O. P. Bernhardt, Mgr.; A. E. Beall, Supt. 110,000 tons.

A—The Davison Chemical Corp.

Chairman of the Board, Chester F. Hockley; Vice-Chairman of the Board, M. G. Geiger; Pres., R. L. Hockley; Vice Pres., W. N. Watmough, Jr. (Mixed Fertilizer Division); Vice Pres., M. C. Roop (Finance); Vice Pres., C. E. Waring; Vice Pres., W. B. McCloskey; Vice Pres., P. W. Bachman (Research & Development); Treas., J. E. Hardesty; Vice Pres., D. N. Hauseman (Marketing); Controller, F. J. Griffin; Purchasing Agent, C. C. Dorsey; Works Mgr., Curtis Bay—A. R. Worrall.

A—Mathieson Chemical Corporation

Mathieson Agricultural Chemicals Division, H. A. Koehler, Plant Mgr. Executive Offices: Little Rock, Ark.

D—Pennsylvania Farm Bureau Cooperative Association

Leon B. Epler, Pres.; Nelson L. Fisher, Vice-Pres.; L. A. Thomas, Jr., Treas.; J. Franklin Styer, Sec.; O. P. Bernhardt, Jr. Plant Mgr. A. E. Beall, Prod. Mgr. 110,000 tons.

DENTON

CF—Soil Service

Box 362, Walter B. Palmer, Sr., Pres.; Walter B. Palmer, Jr., Plant Mgr.; R. Dale Palmer, Prod. Mgr. 1,500 tons.

FREDERICK

DFJ—Farmers Cooperative Assn., Inc.

Box 458, Edw. F. Holter, Pres.; E. E. Hodges, Vice Pres.; D. J. Thomas, Sec.; J. Wm. Howard, Sr., Treas.; H. K. Staley, Gen. Mgr.; Theo. R. Reeder, Plant Mgr. 3,000 tons.

CFJ—The Ramsburg Fertilizer Company

S. Carroll St.
J. Richard Ramsburg, Pres.; Mrs. L. V. Ramsburg, Vice-Pres.; J. Richard Ramsburg, Treas.; Mrs. M. E. Ramsburg, Sec.; J. H. G. Best, Plant Mgr.; J. Richard Ramsburg, Prod. Mgr. 6-8,000 tons.

GAITHERSBURG

C—Thomas & Co.

Jno. W. Thomas, Pres.; Clyde E. Thomas, Vice-Pres.; G. Frank Thomas, Treas.; Clyde E. Thomas, Sec.; M. H. Criswell, Prod. Mgr. 5,000 tons.

HAGERSTOWN

B—Central Chemical Corp.

Franklin M. Thomas, President; M. C. Morton, Vice-President; F. S. Schwartz, Treas.; G. H. Thomas, Sec.; Charlie Fogg, Plant Mgr.; D. Fred Neikirk, Pur. Agent. 50,000 tons.

HAMPSTEAD

CJ—Hampstead Fertilizer Company

J. M. Simmons, Pres.; Robt. W. Royston, Vice-Pres.; H. L. Twigg, Treas.; M. M. Rohrbach, Sec.; H. L. Twigg, Plant Mgr. 2,000 tons.

KEYMAR

C—The Frederick Mehring Fer-

tilizer Works, Inc.
H. O. Harner, Mgr. 10,000 tons.

POCOMOKE CITY

CDFHJ—W. B. Tilghman Company

Wm. B. Tilghman, Jr. Salisbury, Md. Pres.; Mrs. Louise T. Lambert, Salisbury, Md., R. A. Ross, Pocomoke City, Md., Vice Presidents; Jno. L. Morris, Salisbury, Md., Sec. & Treas.; Harold C. Mason, Plant Mgr.; R. A. Ross, Prod. Mgr. 20,000 tons.

SALISBURY

CF—The Farmer and Planters Company

202 Mill St. W. Lee Allen, Pres.; J. Wm. Shockley, Vice-Pres.; Edgar H. McGrath, Sec. & Treas.; John Gordon Stewart. 6,000 tons.

CE—Wm. B. Tilghman Co., Inc.

Wm. B. Tilghman, Jr., Pres.; R. A. Ross, Vice-Pres.; John L. Morris, Sec. & Treas. 15,000 tons
Salisbury, Md. (Also plant at Pocomoke City, Md. 25,000 tons.

SNOWHILL

CEFGHJ—Worcester Fertilizer Company.

Ralph E. Shockley, Pres.; R. Newell Stagg, Vice-Pres.; Ben T. Truitt, Sec. & Treas.; M. L. Truitt, Asst. Sec.-Treas.; Daniel S. Moore, Asst. Sec.-Treas.; Levi J. Truitt, Plant Mgr. 20,000 tons.

WESTMINSTER

CF—Farmers Fertilizer & Feed Company

1 W. Main St.
Herbert C. Bixler, Pres.; Jno. E. B. Nelson, Vice-Pres.; Jno. P. W. Beard, Treas. and Prod. Mgr.; Paul R. Niswander, Sec.; Russell Snyder, Plant Mgr. 20,000 tons.

CH—Westminster Fertilizer Co.

John E. Stevenson, Pres.; Geo. M. Tracy, Vice-Pres.; V. C. Hull, Sec. & Treas.; E. L. Crowl, Plant Mgr. 2,500 tons.

WHITEFORD

CGI—Miller Chemical and Fertilizer Corp.

W. N. Long, Pres.; O. Neuman, Jr., Thos. L. Smith, A. T. Bradley and A. G. Fischer, Vice-Presidents; L. W. Cameron, Treas.; J. F. Miller, Sec.; A. Thomas Bradley, Plant Mgr.; A. G. Fischer, Prod. Mgr. 20,000 tons.

MASSACHUSETTS

ADAMS

CG—Shea Chemical Corp.

Main Office: Baltimore, Md.
Plants: Adams, Mass., Columbia, Tenn. 30,000 tons.

ATTLEBORO

CD—N. Roy & Son

Rear 618 Newport Ave. Joshua Lecht, Owner.

BOSTON

B—Consolidated Rendering Company

178 Atlantic Ave. John H. Downing and Charles K. Lececk, Directors; Walter E. Meeken, Vice Pres.

Swift & Company, Plant Food Division

Sales Office, only, J. C. Seckel, Mgr., 25 Faneuil Hall Square, Boston, Mass.

CAMBRIDGE

DJ—John Reardon & Sons

51 Waverly St.

LOWELL

B—Lowell Rendering Company

Branch of Consolidated Rendering Company, Boston, Mass. R. A. Tenney, Plant Mgr. 40,000 tons.

NORTH CAMBRIDGE

CDIJ—Eastern States Farmers Exchange

Julian B. Thayer, Pres.; Quentin Reynolds, Gen. Mgr.; J. R. Myers, Fertilizer Production Mgr.; M. E. Pike, Treasurer; L. F. Cizek, Plant Mgr.; W. H. Prigmore, W. Springfield, Mass., Mgr. Pesticide Div. 40,000 tons.

NORTH WEYMOUTH

A—The American Agricultural Chemical Company

285 River St.
Sales Office and Factory, Robert Mossman, Mgr.; F. C. Manuel, Supt.

SOUTH DEERFIELD

C—Old Deerfield Fertilizer Co., Inc.

Clarence F. Clark, Pres.; E. S. Russell, Treas.

SPRINGFIELD

C—Springfield Rendering Company

Box 379, Branch of Consolidated Rendering Co., Boston, Mass. W. M. French, Mgr. 6,000 tons.

WEST SPRINGFIELD

CIJ—Eastern States Farmer's Exchange, Inc.

26 Central St.
Quentin Reynolds, General Manager; J. R. Meyers, Prod. Mgr. General Office at: West Springfield, Mass. Fertilizer Plants at: Cambridge, Mass., Wilmington, Del., York, Pa. & Kittanning, Pa. 50, 15, 25 & 20 thousand tons.

WOBURN

I—The Hy-Trous Corporation

Donald B. MacWhinnie, Pres.; Wm. A. Morday, Jr., Treas.; Harry H. Hinman, Plant Mgr. 300 tons Liquid Fertilizer.

B—International Minerals and Chemical Corporation

Sales Office, Plant, F. R. Whitham, Dist. Sales Mgr.; E. J. Comer, Supt.

MICHIGAN

DETROIT

A—The American Agricultural Chemical Company

P. O. Drawer 2458.
Sales office and Factory.
L. P. Downham, Mgr.; Elroy L. Felch, Supt.

HAMILTON

CEFGJ—Hamilton Farm Bureau Cooperative, Inc.

Joseph G. Schipper, Pres.; James Koopman, Vice-Pres.; Andrew G. Lohman, Sec., Mgr. & Treas. 2,000 tons.

HOLLAND

C—Smith Agricultural Chemical Company

Dick Miles, Vice-Pres. & Div. Mgr.; Vernon Van Oort, Supt. 3,000 tons. General Office, Columbus, Ohio

Stanton Co.

Box 116.

KALAMAZOO

CEFJ—Michigan Farm Bureau Services

P. O. Box 148. Alfred Roberts, Pres. Pigeon, Mich.; Jack Yaeger, Gen. Mgr.; Phil Turner, Plant Supt.; Adolph F. Ecklund, Mgr. Plant Food Manufacturing Division, 40,000 tons. Wayne LeCureux, Mgr. Pesticide Div.

KENT CITY

G—General Liquid Fertilizer Co.

LANSING

The Diamond Fertilizer Co.

The Davison Chemical Corp.

101 N. Charles St., Baltimore 2, Md. Plant: Lansing, Chester F. Hockley, Chairman of the Board; Chester F. Hockley, Vice Chair. of the Board; M. G. Geiger, Pres.; R. L. Hockley, Vice Pres. Mixed Fert. Div.; W. N. Wammough, Jr., V. P., Finance; M. C. Roop, V. P., Marketing; D. N. Hauserman, Vice Pres.; C. E. Waring, Vice Pres.; W. B. McCloskey, V. P.; P. W. Bachman, Treas.; J. E. Hardesty, Controller; F. J. Griffin, Pur. Agent; C. C. Dorsey, Local Mgr.; B. C. Manker, Asst. Mgr.; V. G. Vasbinder, Plant Supt. George Mack.

BFGJ—Farm Bureau Service, Inc.

221 N. Cedar, Plant at Saginaw, Mich. Alfred Roberts, Pres.; J. F. Yeager, Gen. Mgr.; John Sexton, Plant Mgr. P. O. Box 867, Saginaw, Mich.; Adolph E. Ecklund, Prod. Mgr. 55,000 tons.

SAGINAW

C—The American Agricultural Chemical Company—Works

P. O. Box 1223.
R. E. Lehmkuhl, Supt.

BEFIU—Farm Bureau Services, Inc.

Alfred Roberts, Pres.; J. F. Yeager, Gen. Mgr.; John Sexton, Box 867, Saginaw, Mich. Director Plant Food Division; Adolph F. Ecklund. 55,000 tons.

B—The Smith Agricultural Chemical Co.

Div. Mgr., Elmer C. Barsch, Vice Pres., (Saginaw) Virgil L. Sanford, Supt. 75,000 tons. General Office, Columbus, Ohio.

MINNESOTA

ALBERT LEA

C—Smith-Douglass Co., Inc.

Ralph B. Douglass, Pres.; W. B. Copeland, Vice-Pres.; Branch Mgr. M. W. Mawhinney, A. E. Gibson, Prod. Mgr. Branch of Norfolk, Va.

HATFIELD

CF—Bob Fruen Fert. Co.

Gerald Vanier, Plant Mgr. Dry Mixer 5,000 tons.

MINNEAPOLIS

F—Towe, Incorporated

4321 Xeryes Ave. H. L. Beckman, Vice-Pres.; Roy M. Howe, Treas. & Pur. Agent; Myrtle M. Howe, Sec., Gen. Mgr.; Warren Gray, Prod. Mgr. 25,000 tons.

CJ—Land O'Lakes Creameries, Inc.

Jno. Brandt, Pres.; C. A. Johnson, Mgr. Fertilizer Division; Emil G. Johnson, Treas. Frank White, Sec.; Alex Klopka, Plant Mgr. 45,000 tons.

C—Peavey Fertilizer Plant

Div. of F. H. Peavey Co. Minneapolis, Minn. Plant: Great Northern Drive, Box 1916, Fargo, N. Dakota. D. A. Williams, Plant Mgr. 25,000.

MOOREHEAD

CI—Minnesota Farm Bureau Service Company

101 E. Fairfield Ave.
D. A. Williams, Gen. Mgr.; H. Gooler, Plant Mgr.; A. D. Milburn, Pur. Agent; Wm. Armour, Mgr. Pesticide Div. 20,000 tons

SAINT PAUL

CGIJ—Minnesota Farm Bureau Service Company

101 E. Fairfield Ave. L. O. Jacobs, Pres.; D. A. Williams, Gen. Mgr.; J. L. Morton, Sec. and Treas.; Howard Gooler, Prod. Mgr.; A. D. Milburn, Pur. Mgr. 50,000 tons St. Paul, 20,000 tons Moorehead.

BD—Northwest Cooperative Mills

635 North Fairview Ave. Plants located at Green Bay, Wisc. and Winona, Minn. E. A. Syftestad, Pres.; Milo Dahl, Sec. & Treas.; A. H. Roffers, Gen. Mgr.; G. O. McMillin, Prod. Mgr. & Pur. General Office only. Fert Plant at Winona, Minn. Acidulator & Fertilizer Plant at Green Bay, Wisc. Acidulator 30,000 tons Year—2 Plants 40,000 tons each.

WELCOME

CDF—Welcome Agricultural Chemical Company

A. J. Schuler, Pres.; E. W. Eickelberg, Vice Pres.; W. C. Bicknase, Sec. Treas.; Clifford Nelson, Plant Mgr. 20,000 tons.

WINONA

C—Armour Fertilizer Works

Sales Office, Chicago Heights. Ill. O. L. Peterson, Div. Mgr. General Offices, Atlanta, Ga.

CD—Northwest Cooperative Mills, Inc.

E. A. Syftestad, Pres.; Milo Dahl, Sec. & Treas.; A. H. Roffers, Gen. Mgr., G. O. McMillin, Prod. Mgr.; Joe Curtis, Plant Mgr. 40,000 tons.

MISSISSIPPI

AMORY

CEHJ—North East Mississippi Fertilizer Company

J. L. Bryan, Owner; W. H. Bryan, Plant Mgr. 2,000 tons.

CANTON

B—Mississippi Federated Cooperatives (AAL)

H. C. Carter, Pres.; D. Mercier, Vice-Pres.; C. L. McNeil, Gen

KEY: A—Complete plant; B—Superphosphate, mixed fertilizers; C—Mixed fertilizer only; D—Sell goods manufactured for them;

Mgr. & Treas.; Ruth Cooper, Sec.; L. L. Walters, Supt.; J. H. Williamson, Prod. Mgr.; E. G. Spivey, Pur. Agent. 40,000 Mixed—20,000 tons Superphosphate.

CLARKSDALE

BG—Southern Agricultural Fertilizer Co.

Box 728, Main Office, Kinchen O'Keefe, Pres.; A. H. Gotcher & W. H. Gresham, Vice-Pres.; W. M. Butler, Sec.; Paul Hunter, Prod. Mgr.; Kinchen O'Keefe, Pur. Agent; W. R. Burchfield, Plant Mgr.; Paul M. Hunter, Prod. Mgr. 40,000 tons.

COLUMBUS

D—The Refuge Cotton Oil Company

Branch of The Southern Cotton Oil Co. Main Office: New Orleans, La. Y. E. Travis, Mgr. Columbus, Miss.

CORINTH

C—Mississippi Federated Cooperatives (AAL)

W. S. Nash, Plant Mgr.; Tommie Mask, Prod. Mgr.; E. G. Spivey, Pur. Agent. 5,000 tons.

BJ—Kinchen O'Keefe & Co.

Main Office, Clarksdale, Miss. Kinchen O'Keefe, Pres.; Wm. H. Gresham, Vice Pres.; Wm. M. Butler, Sec. & Treas.; J. Roy Pratt, Jr., Plant Mgr.; Paul Hunter, Pur. Agent. 50,000 tons.

GREENVILLE

D—The Southern Cotton Oil Company

Main office: New Orleans, La. J. B. Baird, Mgr.

GREENWOOD

C—All States Fertilizer Company

N. P. Davis, Sr., Owner; N. P. Davis, Jr., Mgr.

CGJ—Staple Cotton Cooperative Association

O. F. Bledsoe, Pres.; A. H. Stone, Vice Pres.; W. M. Garrard, Gen. Mgr.; T. R. Wells, Asst. Gen. Mgr.; J. L. Kethley, Asst. Gen. Mgr.; J. B. Hinton, Sec.-Treas.; C. J. Coleman, Asst. Gen. Mgr. Greenwool; Geo. Cooper, Plant Mgr.; J. B. Hinton, Pur. Agent. 7,500 tons.

GULFPORT

A—Gulfport Fertilizer Company

D. P. Cranberry, Pres.; G. E. Covington, Vice-Pres.; N. E. Gaston, Sec. & Treas.; H. P. Robinson, Plant Mgr. 20,000 tons.

CDF—Marine Feed and Fertilizer Co.

R. L. Colson, Owner and Mgr.

HATTIESBURG

BFGJ—Meridan Fertilizer Factory

P. O. Box 991. W. F. Guinee, Pres.; M. G. Field, Vice-Pres.; W. F. Hoerner, Sec.-Treas.; W. R. Baughn, Supt.; W. M. Hemeter, Prod. Mgr. 50,000 tons.

HAZLEHURST

CJ—Hazlehurst Oil Mill & Fertilizer Co. Owned and Operated by Mississippi Cottonseed Products Co.

W. D. Lowe, Chairman of the Board; H. E. Covington, Pres.; J. R. Mason, Treas.; Frank M. Smith, Local Mgr.; J. L. Book, Supt. 10,000 tons.

JACKSON

C—Delta Cotton Oil and Fertilizer Company

Alfred Jenkins, Pres.; W. R. Barrow, James C. Bolton, Vice-Presidents; Lowell D. Hamilton, Sec.; R. F. Anderson, Plant Mgr. 25,000 tons.

B—Jackson Fertilizer Company

A. A. Green, Pres. & Gen. Mgr.; Garner W. Green, Vice-Pres.; Jos. H. Morris, Sec. & Treas.; Cecil B. Morton, Vice-Pres. & Mgr. H. Baird Green, Vice-Pres. & Asst. Mgr. J. C. Halfacre, Asst. Sec. & Treas.; Geo. D. Purvis, Sales Mgr.; J. B. Nicholson, Plant Supt.; H. B. Green, Vice Pres. & Pur. Agent. 30,000 tons.

MATHIESON Chemical Corp.

Mathieson Agricultural Chemical Sales Division. Executive Offices: Little Rock, Arkansas. Sales Offices: 221 Plaza Bldg. E. L. Pierson, Sales Mgr., Southern Division.

BFEJ—Mississippi Federated Cooperative (AAL)

H. C. Carter, Pres., Louisville, Miss.; D. Mercier, Corinth, Miss. Vice-Pres.; Charlie McNeil, Jackson, Miss., Treas. & Gen. Mgr.; Miss Ruth Cooper, Jackson, Miss., Sec.; J. K. Morgan, Jr., Mgr. Pesticide Div. Plants located Canton, Miss.; Corinth, Miss.; Laurel, Miss. Plant Mgr. Canton, L. L. Walters; Corinth, W. S. Nash; Laurel, G. L. Jackson, E. G. Spivey, Prod. Mgr.; Jackson, Miss. Canton 40,000 tons — Corinth 7,000 — Laurel 3,000 tons. Acidulating Plant at Canton, Miss.

B—F. S. Royster Guano Company

C. F. Burroughs, Pres.; F. S. Royster, Jr., W. T. Wright, F. S. Moore, Vice Presidents; C. F. Burroughs, Jr., Treas.; Shepard R. Cooke, Sec.; H. R. Turner, Supt.; J. R. Owens, Mgr. Jackson Sales office. 50,000 tons.

B—Virginia-Carolina Chemical Corp.

Jackson, Miss. (Sales Office and Factory.) General Offices, Richmond, Va.

LAUREL

The American Agricultural Chem. Co.

P. O. Box 446. Sales Office only. W. A. Lyerly, Mgr.

CD—Laurel Oil & Fertilizer Company

H. E. Covington, Pres.; J. B. Perry, Jr. & W. S. Welch, Vice-Pres.; D. P. Cranberry, Sec. Treas. & Pur. Agent; J. A. Dodd, Prod. Mgr. 12,000 tons of fertilizer.

C—Mississippi Federated Cooperative

H. C. Carter, Pres., Louisville, Miss.; D. Mercer, Corinth, Miss. Vice-Pres.; Charlie McNeil, Jackson, Miss., Treas. & Gen. Mgr.; Miss Ruth Cooper, Jackson, Miss., Sec. Plants located Canton, Miss.; Corinth, Miss.; Laurel, Miss. Plant Mgr. Canton, L. L. Walters, Corinth, W. S. Nash, Laurel, G. L. Jackson, E. G. Spivey, Prod. Mgr. Jackson, Miss. 2,500.

MACON

CJ—Imperial Cotton Oil Co.

E. T. George, Pres. & Mgr.; Fread Gentry, Plant Mgr.; E. T. George, Geo. Alford, Mgr. Pesticide Div. 6,000 tons.

MAGEE

BI—Magee Cooperative Gin

A. A. L.

E. T. Layton, Pres.; B. T. Flynt, Vice Pres.; Barron A. Smith, Sec. and Treas.; H. E. Rice, Supt.; B. A. Smith, Prod. Mgr.; A. K. Morean, Mgr. Pesticide Div. 15,000 tons.

MAGNOLIA

C—Magnolia Cotton Oil Company

G. E. Covington, Plant Mgr.

MARKS

CGI—Riverside Fertilizer Factory

Wm. King Self, Pres. Hill Blalock, Prod. Mgr.

MERIDIAN

C—Eagle Cotton Oil Company

E. A. Morrison, Pres.; Webb Brunson, Vice-Pres.; E. E. Morrison, Sec. Treas. & Pur. Agent; B. W. Pippin, Plant Mgr. 15,000 tons.

MISSISSIPPI FEDERATED COOPERATIVES

NEWTON

CJ—Newton Oil Mill

Owned and operated by Mississippi Cottonseed Products Co.

H. E. Covington, Pres. J. B. Perry, Jr. & G. E. Covington, Vice Presidents. J. R. Mason, Sec. & Treas.; W. R. Jones, Plant Mgr. 8,000 tons.

PHILADELPHIA

CFH—Supreme Feed & Fert. Co.
R.B. Lattimer, Pres.; Hugh Lattimer, Vice-Pres.; Mildred Lattimer, Sec.-Treas. 10,000 tons.

TUPELO

A—International Minerals & Chemical Corporation
Sales Office, Plant.
J. E. Young, Dist. Sales Mgr.;
T. L. Holland, Supt.

VICKSBURG

CDGJ—Magnolia Fertilizer Co.
P. O. Box 18. C. H. Russell,
(Jackson, Miss.) Pres.; B. L. Davis, Vice Pres.; H. T. Bankston, Mgr.; C. P. Farley, Prod. Mgr.; H. T. Bankston, Pur. Agent.

D—The Southern Cotton Oil Company

Main Office: New Orleans, La.;
M. J. Harper, Mgr., Vicksburg, Miss.

Spencer Chemical Co.

WEST POINT

C—Crown Chemical & Mfg. Co.
E. F. Cater, Pres.; Mrs. E. F. Cater, Sec. & Treas.; J. A. Coggins, Plant Mgr. 8,000 tons.

MISSOURI

ATLAS

B—Thurston Chemical Co.
O. M. Walstad, Plant Mgr.; Howard Rackley, Supt., Fert. Div.; James A. Doyle, Supt. Chemical Div. 175,000 tons.

COLUMBIA

B—Missouri Farmers Assn., Inc.
201 S. 7th St. Gen office only.
Fred V. Heinkel, Pres.; R. J. Rosier, Sec. & Treas.; Loryn E. McQuerter, Mgr. Plant Foods Div.; Leland Holman, Mgr. Springfield Plant. 50,000 Tons. J. Howard McNeill, Mgr. Maryland Heights Plant. 50,000 tons.

JEFFERSON CITY

CG—Farm Bureau Service Co. of Missouri, Inc.
223 E. Capital Ave. Gen office only. H. E. Slusher, Pres.; Frank Johnson, Sec. & Treas.; Earl F. Downen, Gen. Mgr.; B. B. Mainord, Plant Mgr. and Pur. Agent; Del Garnett, Mgr. Pesticide Div. Factory New Florence.

JOPLIN

B—Thurston Chemical Co.

P. O. Box 937.
William R. Thurston, Pres. & Treas.; R. C. Sims, Exec. Vice-Pres.; H. A. Gray, Vice-Pres.; R. C. Sims, Vice Pres.; John W. Ground III, Vice-Pres.; R. N. Johnson, Sec.; Plant Supt. and/or Mgr. Atlas, Mo. plant—O. M. Walstad, Plant Mgr.; Howard Rackley, Supt. Fert. Div.; James A. Doyle, Supt. Chemical Div., Tulsa, Okla. Plant; F. C. Moore, Supt. Trenton, Mo. Plant; J. R. Bass, Supt. John W. Ground III. Pur. Agent. Plants operating in 1952 and 1953, Atlas, Mo., Tulsa, Okla., Trenton, Mo., Atlas, Mo. 175,000, Tulsa, Okla. 100,000, Trenton, Mo. 25,000 tons.

KANSAS CITY

BEJ—Consumers Cooperative Assn.

P. O. Box 2359
Howard A. Cowden, Pres.; T. H. DeWitt, Vice-Pres.; Clifford Miller, Sec. & Treas. Have three plants located as follows: Eagle Grove, Iowa. St. Joseph, Mo. Muskogee, Okla. S. A. White, Pur. Agent; Merle A. Blue, Dir. Fert. Plant; Gordon Hoath, Mgr. Eagle Grove Plant; Alva Shelton, Mgr. St. Joseph, Mo. Plant; Ralph E. Page, Mgr. Muskogee, Okla. Plant. Eagle Grove, Ia. 20,000 Tons, St. Joseph, Mo., 40,000 Muskogee, 40,000 tons.

B—Farm Belt Fertilizer & Chemical Co.

Box 417.
Doyle Patterson, Pres.; Vernon B. Kassebaum, Sec.; C. H. Fluty, Gen. Mgr.; Murrell W. Buzzau, Supt. 35,000 tons.

CEGI—Pearson-Ferguson Chemical Company, Inc.

C. A. Patterson, Pres. & Purchasing Agent; Maude M. Patterson, Vice-Pres.; Chas A. Patterson, Jr., Sec. & Treas.; Louis Dulany, Plant Supt. & Prod. Mgr.; C. A. Patterson, Pur. Agent, also Mgr. Pesticide Div. 5,000 tons.

A—Spencer Chemical Co.

Kansas City, Mo. Gen office. 610 Dwight Bldg. Sales Office—Plants at Pittsburgh, Kansas, Henderson, Ky., Plants Vicksburg, Miss. & Chicago, Ill. Kenneth A. Spencer, Pres.; C. Y. Thomas, (Operations) J. R. Riley, Jr. (Sales) Jno. P. Miller, Vice Pres. & Treas.; Arthur Mag, Sec.

MARYLAND HEIGHTS

BDGJ—Missouri Farmers Assn., Inc.

Plant Food Division
P. O. Box 170.
Fred V. Heinkel, Pres.; R. J.

Rosier, Sec.; J. Howard McNeill, Plant Mgr.; R. C. Creasy, Prod. Mgr.; Loryn E. McQuerter, Pur. Agent; R. A. Young, Mgr. Pesticide Div. 50,000.

NEW FLORENCE

CGJ—Farm Bureau Service Co. of Mo.

Green Diamond Fertilizer Plant
E. Slusher, Pres.; J. S. Williamson, Vice Pres.; F. D. Johnson, Sec. & Treas.; E. F. Downen, Gen. Mgr.; B. B. Mainord, Plant Mgr. 20,000 tons.

NORTH KANSAS CITY, MO.

Armour Fertilizer Works

110 W. 19th St.
J. W. Eagleburger, Sales Mgr.

ST. JOSEPH

B—Consumers Cooperative Ass'n.

H. A. Cowden, Pres.; I. H. DeWitt, Vice Pres.; Clifford Miller, Sec. & Treas.; Thomas E. Meylor, Plant Mgr.; Ralph Chamberlin, Plant Supt. 30,000 tons. Plants: Eagle Grove, Iowa and Muskogee, Okla. Merle Blue, Director of Fertilizer Plants. Main office: Kansas City, Mo.

ST. LOUIS

GI—Garden Products Co.

3246 S. Grand Blvd.
Edw. C. Palmer, Gen Mgr.; H. O. Palmer, Asst. Mgr.; Edw. C. Palmer, Mgr. Pesticide Div.

B—Lange Brothers

#1 Angelica St.
Henry K. Lange, Pres.; Dewey K. Lange, Sec. & Treas.; Walter Fittge, Supt. 30,000 tons.

Mathieson Chemical Corporation

Mathieson Agricultural Chemicals Division. Sales Office: Rialto Bldg. P. F. Schowengerdt, Div. Sales Mgr. Executive Offices: Little Rock, Ark.

SIKESTON

C—Missouri Plant Foods

L. G. Black, Pres.; Rex Morgan, Vice Pres.; Earl Day, Sec. & Treas.; W. J. Jacobs, Plant Mgr.; L. G. Black & W. J. Jacobs, Pur. Agents. 25,000 tons.

SPRINGFIELD

BDFG—Missouri Farmers Assn.

Plant Foods Division
Box 1546 SSS
F. V. Heinkel, Columbia, Pres.; L. E. McQuerter, Columbia, Plant Food Division Mfg.; R. J. Rosier, Columbia, Sec.; H. L. Holman, Springfield, Plant Mgr.; R. P. Cloud, Springfield, Supt.; L. E. McQuerter, Columbia, Pur. Agent. 40,000 tons.

KEY: A—Complete plant; B—Superphosphate, mixed fertilizers C—Mixed fertilizer only; D—Sell goods manufactured for them;

TRENTON

C—Thurston Chemical Company
J. R. Bass, Plant Supt. Annual
25,000 tons.

WEBB CITY

B—Tri-State Chemical Co.
P. O. Box 591.
Milo Johnson, Pres. & Gen.
Mgr.; L. J. Savana, Vice-Pres.
Plant Mgr.; Clifford Casey, Sec.
& Treas.; L. J. Savana, Plant
Mgr. 25,000 tons.

MONTANA

ANACONDA

AG—Anaconda Copper Mining
Co., Fertilizer Dept.
(Distributors of Anaconda Copper
Mining Company's Fertilizer
Production), R. A. Jones,
Mgr. of Sales Office at Anaconda,
Mont. Brands: Anaconda Treble
Superphosphate, Ammoniated
Phosphate, Liquid Phosphoric Acid &
Mixed Fertilizer. 90,000 tons.

HARLOWTON

C—Western Fertilizers
P. O. Box 1505. C. William Parker,
Pres.; J. R. Hunter, Vice-Pres.;
L. O. Voss, Sec. & Treas.;
J. R. Hunter, Prod. Mgr.; C. Wm.
Parker, Pur. Agent. Start Oper-
ating March, 1953.

NEBRASKA

FAIRBURY

C—National Fertilizer Co.
Plants: Des Moines, Iowa; Den-
ver, Colo. Jerry Mitchell, Plant
Mgr.; Harold Tabor, Supt. 15,-
000 tons.

FREMONT

CF—General Fertilizer Co.
W. A. Koepllin, Pres.; Victor
Keilstrup, Sec. & Treas.; Stew-
art Daniels, Vice Pres.; J. M.
Rice, Dir. Stewart Daniels, Plant
Mgr.; W. A. Koepllin & B. T.
Christensen, Pur. Agents. 20,000
tons.

C—Falls City Fertilizer, Inc.

Howard L. Peterson, Pres.; B. F.
Backlund, Vice Pres. for Sales;
G. L. Downey, Sec. and Treas.;
Plant Mgr.; Louis Willits, Prod.
Mgr.; Howard L. Peterson, Pur.
Agent. 35,000 tons.

GRAND ISLAND

CFJ—Lincoln Service & Supply, Inc.
Box 327. Howard L. Peterson,
Pres. & Treas.; B. F. Backlund,
Vice Pres. for Sales; Sam Spahr,

Vice Pres.; Gilles L. Downey,
Sec., Plant Mgr.; Robert Wake-
line, Prod. Mgr.; Howard L.
Peterson, Pur. Agent. 25,000
tons.

LINCOLN

Solitone Fertilizer Co.

John P. McFarland, Pres.; H. J.
Rosser, Vice-Pres.; J. W. Schum,
Treas.; W. J. Bavinger, Sec.; C.
T. McFarland, Supt. & Mgr. 3,-
000 to 4,000 tons.

OMAHA

BG—Farm Fertilizers, Inc.

Box 351
R. E. Bennett, Pres.; W. H.
Woodard, Plant Mgr.; Philip C.
Shugart, Prod. Mgr. 50,000 tons
Super Phos. and mixed Fert.

Nebraska Fertilizer Co.

C. H. Smith Supt.; Lenn Snow-
den, Prod. Mgr. 4,000 tons.

Swift & Company, Missouri Valley Feed Sales Dept.

B. A. Roberts, Mgr. U. S. Yards,
So. Omaha Station. Sales Of-
fice only.

SCOTTSBLUFF

C—Curry Chemical Co., Inc.

W. A. Curry, Jr., Pres., Treas.
& Sec.; W. A. Curry, Sr., Vice-
Pres.; E. M. Cowen, Plant Mgr.;
Warren Johnston, Prod. Mgr.
C. A. Gilna, Pur. Agent; Warren
Johnston, Prod. Mgr.; C. A. Gil-
na, Pur. Agent. 18,000 tons.

SOUTH SIOUX CITY

Crystal Chemical Co., Inc.

20,000 tons.

NEVADA

LAS VEGAS

Tom Beard Assoc. Boulder Indus- trial Minerals Corporation

Tom Beard, Pres.; Dr. Elmer
Nelson, Vice-Pres.; J. E. Daley,
Treas.; Fred Oberautter, Sec.;
M. V. Wagnon, Supt.; Geo. K.
Smith, Prod. Mgr. 40,000 tons
Minerals.

LOVELOCK

Growers Fertilizer Company

Stockton, Calif. F. J. Jones,
Owner. 5,000 tons Pulverized
Sheep Manure.

NEW JERSEY

BRIDGETON

CEFH—G.L.F. Soil Building Service

A Division of Coop. G.L.F. Ex-

change, Inc. J. C. Crissey, Itha-
ca, N. Y., Division Manager;
John Stark, Supt. 20,000 tons.

C—Cumberland Fertilizer Com- pany

Roland R. Willoughby, owner.
Stuart Brenaman, Plant Mgr.
3,000 tons.

CF—Star Fish & Bone Fertilizer Company

67 S. Laurel St.
Charles A. LuBow, Pres.; Al-
bert Serata, 1st Vice Pres.; Jack
G. Kolman, 2nd Vice Pres.; Ben-
jamin Serata, Sec.-Treas.; David
M. Lourie, Asst. Sec.-Treas. and
Comptroller; Lewis Serata,
Plant Mgr.; Gerald G. Gold-
stein, Prod. Mgr.; David M.
Lourie, Pur. Agent. 15,000 tons.

CAMDEN

AFGI—Thomas & Son Company

721 Market St.
Plant location, Paulsboro, N. J.,
Huntington Sta., L. I., N. Y.
Raymond R. Hull, Pres.; S. R.
Coale, Vice-Pres. & Treas.; A.
M. Carson, Sec.; G. E. Keller,
Plant Mgr.; H. V. Lehn, Prod.
Mgr.; F. N. Kirk, Pur. Agent; C.
M. Biddle, Mgr. Pesticide Div.
100,000 Paulsboro, 15,000 Hunt-
ington.

CARTERET

A—The American Agricultural Chemical Company

Sales Office and Factory.
J. H. Banning, Mgr.; S. D. Ward,
Supt.

A—Armour Fertilizer Works

Sales Office. W. E. Wehner, Div.
Mgr. General Office, Atlanta,
Ga.

B—Virginia-Carolina Chemical Corp.

(Sales Office and Factory.) Gen-
eral Offices: Richmond, Va.

COLLINSWOOD

DEFGIJ—Fertilizer Products Cor- poration

22-32 White Horse Pike.
M. E. Fox, Pres.; H. P. Fox,
Sec. Treas.; H. P. Fox, Plant
Mgr. 2,000 tons.

CRANBURY

CEFI—Chamberlin & Barclay, Inc.

E. S. Barclay, Pres.; I. D. Bar-
clay, Treas.; E. Stanley Barclay,
Sec.; L. Graham Campbell,
Plant Mgr. & Mgr. Pesticide
Div. 20,000 tons.

DAYTON

CFI—Dayton Fertilizer Corp.

Georges Road & Penn. R. R.
Chester S. Edwards, Pres. &
Treas.; S. Schmidt, Sec. W. A.
Nist, Vice Pres.; L. H. Edwards,
Plant Mgr.; W. A. Nist, Pur.
Agent, also Mgr. Pesticide Div.
25,000 tons.

ENGLISHTOWN

CEFH—G.L.F. Soil Building Service, a Div. of Coop. G.L.F. Ex- change, Inc.

J. C. Crissey, Ithaca, N. Y., Div.
Mgr.; A. D. Hoxie, Supt. 15,000
tons.

GLASSBORO

DFG—The Gloucester County Agricultural Co-operative Association, Inc.

Market Place, Wilmer Zee,
Pres.; Charles H. Kirby, Vice
Pres.; O. P. Newcomb, Sec.; T.
B. Kirby, Treas., Plant Mgr.,
Prod. Mgr. & Pur. Agent. 500
tons.

HACKETTSTOWN

C—United By-Products Co.

Samuel Beatty, Pres.; L. P. Wil-
son, Vice-Pres.; Kenneth Beat-
ty, Sec. & Treas. 2,000 tons.

HIGHSTOWN

C—Bennett-Mount Co.

G. A. Bennett, John H. Mount,
George M. Osgood, John H.
Mount, Prod. Mgr. Partners. 4,-
000 tons.

JERSEY CITY

DEGIJ—Peter Henderson-Stumpf & Walter Co.

L. F. Palmeret, Pres. Bert Beck,
Plant Mgr.; Stanley Solomon,
Pur. Agent. & Mgr. Pesticide
Div.

MILLVILLE

C—The Espoma Company

H. G. Sanders, Pres. and Treas.
5,000 tons.

PAULSBORO

ABFI—I. P. Thomas & Son Co.

Office, Camden, N. J. Raymond
R. Hull, Pres.; S. R. Coale, V.P.
& Treas.; (Miss) A. M. Carson,
Sec.; Homer V. Lehn, Prod. Mgr.;
Geo. E. Keller, Plant Mgr.; J. E.
Haskell, Plant Engr.; F. N. Kirk,
Pur. Agent; D. Burnett, Jr., Mgr.
Pesticide Div. 100,000 tons.

PITTSSTOWN

C—Allen Company

W. A. Allen, Mgr.; Robert E.
Allen, Plant Mgr.; W. A. Allen,
Mgr. Pesticide Div. Approx. 500
tons.

PROSPECT PLAINS

CDI—Bennett and Clayton Co., Inc.

Arthur A. Clayton, Pres.; Fred

W. Heidinger, Vice-Pres.; Fred
A. Clayton, Treas.; Edmund A.
Rice, Sec.; F. W. Heidinger,
Prod. Mgr. & Mgr. Pesticide
Div. 5,000 tons.

RIDGEFIELD

O. M. Scott & Sons Co.

Branch Shipping Office, Main
Office Marysville, Ohio.

ROCHELLE PARK

CGI—The Terre Company

T. A. Terhune, Pres.; C. L. Ter-
hune, Treas.; O. W. Terhune,
Sec. 5,000 tons. Branch Plant,
Totowa, N. J.

SKILLMAN

CGI—Goulard & Olena, Inc.

Alexander Goulard, Pres.; Har-
old G. Olena, Vice-Pres.; H. J.
Wichmann, Sec.; Chris Raba,
Plant Mgr.; John Stutt, Sales
Mgr.; E. K. Doris, Mgr. Golf
Course Maintenance. 2,500-3,500
tons.

SOUTH AMBOY

The American Agric. Chemical Co.

P. O. Box 239.
Phosphate Plant—Not used for
Fertilizer. E. N. Taylor, Supt.

SOUTH KEARNY

CEFH—G.L.F. Soil Building Service, a Division of Coop. G.L.F. Ex- change, Inc.

J. C. Crissey, Ithaca, N. Y. Di-
vision Mgr.; D. F. Garrison, Supt.
25,000 tons.

SPRINGFIELD

CDEFG—Andrew Wilson, Inc.

C. H. Morrison, Pres. & Treas.;
J. E. Morrison, Vice-Pres.; H.
C. Heim, Sec. 5,000 tons.

TENNENT

CI—Reed and Perrine, Inc.

Frank Perrine, Pres.; John Sat-
terthwaite, Vice-Pres.; Duncan
Perrine, Treas.; George Chambers,
Sec. 7,500 tons.

TOTOWA

CI—The Terre Co.

T. A. Terhume, Pres.; O. M. Ter-
hume, Sec.; C. L. Terhume,
Treas.; O. M. Terhume, Plant
Mgr.; Roy C. Bossolt, Mgr. Pesticide
Div.

TRENTON

CD—Trenton Bone Fertilizer Com- pany

Henry W. Jeffers, Sr., Pres.;
Raymond Hutchinson, Treas.; W.
Albert Grove, Sec. 20,000 tons.

VINELAND

CF—Wilde Farm Supply Company, Inc.

F. U. Wagner, Vice-Pres. & Mgr
7,000 tons.

WOODSTOWN

CHJ—South Jersey Farmers' Exchange

A. B. Waddington, Pres.; C. B.
Mitchell, Vice-Pres.; Oscar
Ware, Treas.; M. McAllister,
Plant Mgr.; S. B. Brown, Prod.
Mgr. 10,000 tons.

YARDVILLE

CEFH—G.L.F. Soil Building Service, a Div. of Coop. G.L.F. Ex- change, Inc.

J. C. Crissey, Ithaca, N. Y., Div.
Mgr.; John Litzlman, Supt. 25,-
000 tons.

NEW MEXICO

ALBUQUERQUE

CEFGHI—Edmunds Chemical Com- pany

P. O. Box 1016, 2200 S. 2nd St.
Edward Edmunds, Jr., Owner;
Robert S. Culpepper, Sales Mgr.;
Morris Aleoin, Office Mgr.; Man-
uel Chauzez, Plant Mgr.; Edward
Edmunds, Jr., Pur. Agent &
Mgr. Pesticide Div. 1,000-1,500.

CDEI—Ravel Brothers, Inc.

Also operating the New Mexico
Fertilizer Co.

Arthur Ravel, Pres.; Louis Ra-
vel, Vice-Pres. & Treas.; Morris
Segal, Sec.; John Thomas, Plant
Mgr.; Morris Segal, Prod. Mgr.;
Arthur Ravel, Mgr. Pesticide
Div. 10,000 tons.

ANTHONY

CEFGHI—Agricultural Products Co.

P. O. Box 233.
Paul H. Clute, Pres.; J. B. Rit-
ter, Sec. & Treas.; Nelson Clay-
shulte, Jr., Plant Mgr. & Vice-
Pres.; Paul H. Clute, Pur. Agent
& Mgr. Pesticide Div. 3,000 tons.

BDFGHI—Southwest Fert. and Chemical Co.

B. J. Kerley, Pres.; R. V. Kelley,
Vice Pres.; Ralph Esperson,
Plant Mgr.; Donald Kerley, Asst.
Prod. Mgr.; B. J. Kerley, Pur. Agent.
25,000 tons.

CARLSBAD

Duval Sulphur & Potash Co.

P. O. Box 510.
Resident Mgr. W. P. Morris;
Asst. Resident Mgr. & Refinery
Supt.; George E. Atwood, Asst.
Res. Mgr. & Refining Supt.; J.
R. Smith, Pur. Agent. 250,000 to
350,000 tons per year, muriate
of potash.

International Minerals & Chemical Corp.

Louis Ware, Pres.; A. Norman
Into, V. P. Potash Division; N.
C. White, Gen. Mgr.; S. B. Mc-
Coy, Agric. Sales Mgr.; G. T.
Harley, Mgr.; J. F. Farrell, Pur.
Agent.

KEY: A—Complete plant; B—Superphosphate, mixed fertilizers C—Mixed fertilizer only; D—Sell goods manufactured for them;

Potash Company of America

P. O. Box 31, G. F. Coope, Pres.; G. E. Pettit, Vice Pres.; F. O. Davis, Vice-Pres. & Treas.; Homer H. Harris, Sec.; R. G. Haworth, Vice Pres. & Resident Manager; R. R. Knill, Mine Supt.; A. J. Weing, Refinery Supt.; C. E. Bothwell, Pur. Agent. 750,000 tons.

Southwest Potash Corporation

Heath Steele, Pres.; Thomas G. Moore, Vice Pres.; Wm. H. Brady, Treas.; Hans Vogelstein, Sec.; F. H. Stewart, Plant Mgr.; A. H. Kundel, Pur. Agent.

United States Potash Co., Inc.

Office 30 Rockefeller Plaza, New York 20, N. Y. Mine and Refinery Carlsbad.

LAS CRUCES

C—Farmers Market and Supply Co. Box 112, Mose Silverman, Pres.; C. Taylor, Vice-Pres.; J. W. Taylor, Sec.; Mose Silverman, Plant Mgr. 2,500 tons.

NEW YORK

ALBANY

CEFH—G.L.F. Soil Building Service, a Div. of Coop. G.L.F. Exchange, Inc.

J. C. Crissey, Ithaca, N. Y., Div. Mgr.; L. V. Rowley, Supt. 25,000 tons.

BATAVIA

CEFH—G.L.F. Soil Building Service, a Div. of Coop. G.L.F. Exchange, Inc.

J. C. Crissey, Ithaca, N. Y., Div. Mgr.; C. A. Facer, Supt. 30,000 tons.

BEACON

CI—Rose Manufacturing Co.

156 Main St.
O. James Faloon, Vice-Pres. & Pur. Agent; O. James Faloon, Sec.; Earl H. Cochrane, Plant Mgr.; O. James Faloon, Mgr. Pesticide Div.

BIG FLATS

CEFH—G.L.F. Soil Building Service, a Div. of Coop. G.L.F. Exchange, Inc.

J. C. Crissey, Ithaca, N. Y., Div. Mgr.; O. M. Howard, Supt. 4,000 tons.

BLUE POINT

CEI—Plant Products Corporation

John Szybillo, Pres.; Joseph Schwartz, Vice-Pres.; Albert Kromhout, Treas.; Peter F. Finck, Sec.; P. F. Finck, Mgr.; E. J. Camson, Prod. Mgr. 5,000 tons.

BRIDGEHAMPTON

CFI—G.L.F. Soil Building Service,

a Div. of Coop. G.L.F. Exchange, Inc.

J. C. Crissey, Ithaca, N. Y., Div. Mgr.; Fred Markert, Supt. 5,000 tons.

BUFFALO

A—The American Agricultural Chemical Company

129 Lewis St.

Sales Office and Factory. L. B. Dunker, Supt.; C. R. Clemons, Mgr.

B—International Minerals & Chemical Corp.

Sales Office Plant
S. P. Marshall Jr., Dist. Sales Mgr.; C. P. Allen, Supt.

CANASTOTA

CDEFH—G.L.F. Soil Building Service, a Div. of Coop. G.L.F. Exchange, Inc.

J. C. Crissey, Ithaca, N. Y., Div. Mgr.; Carl Gillmeister, Supt. 25,000 tons.

DANSVILLE

C—Ra-Pid-Gro Corporation

88 Ossian St. Jas. J. Blum, Treas.; Frances H. Cutler, Sec.; Karlton Randall, Prod. Mgr.; Thos. P. Reilly, Plant Mgr.; Karlton E. Randall, Prod. Mgr. Several tons a day.

FARMINGDALE

CIJ—Morris Karp and Son

Box 44.
Lee O. Karp, Pres.; Owner & Gen'l. Mgr.; Edgar Beckvar, Office Mgr.; Jacob F. May, Plant Mgr.; Frank Colby, Prod. Mgr.; Walen Simon, Mgr. Pesticide Div. 10,000 tons.

HICKSVILLE, L. I.

CEF—Henry A. Pollak & Company

Charlotte Ave.
Henry A. Pollak, Pres.; Rose Pollak, Treas.; Joseph Benabugger, Plant Mgr. 12,000 tons.

HUNTINGTON

C—I. P. Thomas (N. Y.) Corporation

Huntington Sta. L. I.
S. R. Coale, Pres.; R. R. Hull, Vice-Pres.; W. C. George, Treas.; H. Lippincott, Sec. P. J. Doyle, Plant Mgr.; W. C. Murphy, Pur. Agent; H. C. Maxwell, Mgr. Pesticide Div. 12,000 tons.

ITHACA

CFI—G.L.F. Soil Building Service, A Division of Coop. G.L.F. Exchange, Inc.

J. C. Crissey, Division Manager; G. H. Serviss, Agronomist; A. M. Eno, Comptroller; A. L. Spillman, Prod. Staff; E. H. Phillips, Dir. of Purchasing; E. J. Smith, Prod. Mgr.; R. B. Lenhart, Asst.

Dir. of Purchasing; P. J. McManus, Mgr. Pesticide Div.

Plants—Albany, N. Y., Batavia, N. Y., Big Flats, N. Y., Canastota, N. Y., Lyons, N. Y., North Collins, N. Y., Bridgeton, N. J., Englishtown, N. J., South Kearny, N. J., Yardville, N. J., Union City, Pa., Bridgehampton, N. Y.

JAMESPORT, L. I.

C—Atlantic Fertilizer Corporation

Z. R. Hallock, President; Walter E. Stark, Treas.; Wm. C. Stark, Sec.; R. C. Tuthill, Plant Mgr. 10,000 tons.

HICKSVILLE

William Kroemer & Sons, Inc.
West John St.

LOCKE

CE—Atwater Company

J. Dwight Atwater Co-Partner, Louise A. Chester Co-Partner, Marian A. Bradley Co-Partner, Ralph D. Coulson Co-Partner, R. D. Coulson, Plant Mgr.; J. Dwight Atwater or R. D. Coulson, Pur. Agent. 1,500.

LYONS

CEF—G.L.F. Soil Building Service, a Div. of Coop. G.L.F. Exchange, Inc.

J. C. Crissey, Ithaca, N. Y., Div. Mgr.; Hugh Litzelman, Supt. 25,000 tons.

C—F. S. Royster Guano Co.

C. F. Burroughs, Pres.; F. S. Royster, Jr., W. T. Wright, F. S. Moore, Vice Presidents; C. F. Burroughs, Jr., Treas.; Shepard R. Cooke, Sec'y.; Sales Office, Baltimore, Md. M. F. Wright, Jr., Mgr.; W. H. Bigelow, Supt. 30,000 tons.

MARION

CF—Roy Curtis and Son, Inc.

C. Albert Curtis, Pres.; W. Roy Converse, Vice Pres.; C. Albert Curtis, Treas.; Dorothy D. Curtis, Sec.; Howard Hance, Gen. Mgr.; C. Albert Curtis, Pur. Agent. 10,000 tons.

MATTITUCK, L. I.

CEG—Long Island Produce and Fertilizer Co., Inc.

Main Plant & Office at Riverhead.

NATURAL BRIDGE

AGI—Carbola Chemical Co., Inc.

C. J. Zimmerman, Pres.; H. T. Koenig, Sec. Treas.; Donald Donaghy, Plant Mgr.; Phillip Blazovic, Prod. Mgr.; Clayton Redmond, Pur. Agent. 36,000 tons. H. T. Koenig, Mgr. Pesticide Div.

NEWARK

C—Baugh and Sons Company

NEW YORK

The American Agricultural Chemical Company

Executive Offices, 50 Church St., New York, N. Y. Officials: Charles M. Powell, Pres.; Arnold W. Cramer, Senior Vice-Pres.; Gerard W. Gaffney, Vice-Pres. Sales Promotion and Advertising; John R. Scherm, Vice-Pres.; Fertilizer Sales Frederick R. George, Vice-Pres. Chemical Sales; Wm. H. Hildebrandt, Comptroller and Sec.; Hughes Mayo, Treas.

C—American Cyanamid Company

30 Rockefeller Plaza, New York 20, N. Y. President: R. C. Gaugler, Pres.; L. C. Perkinson; R. S. Kyle, Sec.; James Gorman, Mgr. Nitrogen Dept.; John Bennett, Mgr. Phos Rock Dept.; Dr. Bruce Gleissner, Mgr. Pesticide Div.

Armour Fertilizer Works

Sales office, 120 Broadway, New York, N. Y., W. E. Wehner, Div. Mgr. General Office, Atlanta, Ga.

C—Atkins and Durbrow, Inc.

165 John St.
W. B. Milner, Pres.

C—Chilean Nitrate Sales Corporation

120 Broadway.
President, J. F. Doetsch; Vice-Pres., and Gen. Sales Mgr., R. F. Camp; Sec.-Treas., J. E. Hurley; F. P. Bryan, Asst. Gen. Sales Mgr.; District offices, Raleigh, N. C., B. F. Crumpler, Dist. Mgr.; Columbia, S. C. Edward Sterne, Jr., Dist. Mgr.; Atlanta, Ga., Watts Gunn, Dist. Mgr.; Montgomery, Ala., T. L. Jefferies, Dist. Mgr.; Jackson, Miss., W. H. Milam, Dist. Mgr.; Shreveport, La., F. R. Curtis, Dist. Mgr.; Los Angeles, Calif., E. J. Shaw, Dist. Mgr.

C—Coronet Phosphate Co.

19 Rector St.
J. R. Sheffield, Pres.; B. G. Dabney, Vice-Pres.; G. H. Burt, Sec. & Asst. Treas.; W. R. Mowen, Asst. Sec.; W. H. Taylor, Supt.; R. M. Wilbur, Asst. Supt.; G. W. Johnson, Pur. Agent; Phosphate Rock. 600,000 tons.

International Minerals & Chem. Corp.

61 Broadway. Sales Office Only. W. W. Chadwick, District Sales Mgr. Agricultural Potash; P. W. Hiller, District Mfg. Chemical Sales.

ABCEFGIJ—Naco Fertilizer Company

9. S. William St. W. M. Thurston, Pres.; J. M. Blass, Vice Pres.; O. C. Minton, Vice Pres.; F. Mar-

shall, Treas.; W. M. Rohrer, Pur. Agent.

Mixing Plants: Jacksonville, Fla.; Wilmington, N. C.; Findlay, Ohio; Charleston, S. C.; Spartanburg, S. C.; Ft. Pierce, Fla.

Sales Offices: Wilmington, N. C.; Jacksonville, Fla.; Charleston, S. C. Spartanburg, S. C. Findlay, Ohio; Toledo, Ohio; Vero Beach, Fla.; Rocky Mount, N. C.; Ft. Pierce, Fla.; Laurens, S. C. Sulphuric Acid, Super-phosphate Charleston, S. C. 245,000 tons.

Nitrogen Division

Allied Chemical & Dye Corporation

40 Rector St., New York 6, N. Y. Hugo Riemer, President; M. F. Fogler, Exec. Vice Pres.; F. T. Techter, Exec. Vice Pres.; J. J. Porter, Asst. to Exec. Vice Pres.; E. W. Harvey, Dir. of Sales; M. E. Hunter, Asst. Dir. of Sales; W. J. Exum, Sales Mgr., Dir. Application Liquid Nitrogen Materials; R. M. Jones, Dir. of Product Development; J. D. Waugh, Dir. of Information; W. H. Mortimer, Sales Mgr., Sulphate of Ammonia; G. F. Reale, Sales Mgr. Inorganic Chemicals; R. H. Landis, Sales Mgr. Organic Chemicals; G. W. Suggs, Sales Mgr. Fert. Manufacture Materials; A. W. Terry, Sales Mgr. Export; E. J. Willis, Sales Mgr.; Pacific Coast District.

CD—Premier Peat Moss Corporation

535 5th Ave.
Ernst Mayer, Pres.; Oskar Mayer, Vice Pres.; F. W. Koerner, Sec.

AH—Shell Chemical Corp.

Head Office—50 W. 50th St., New York, N. Y. Western Division—100 Bush St., San Francisco 6, Calif. R. C. McCurdy, Pres.; G. R. Monkhouse, Vice Pres., Western Div.; L. M. Roberts, Gen. Mgr., Mfg.; L. V. Steck, Vice Pres. Mktg.; A. G. Schei, Treas.; G. E. Brewer, Sec.; Mgrs. E. S. Bodine, F. Kuenzly, Plant Managers; W. H. Bratches, Pur. Agent.

Swift & Company, Plant Food Division

Sales Office, B. J. Benson, Mgr., Lawyers County Trust Bldg., 259 W. 14th St., New York, N. Y. Sales Office only.

B—Tennessee Corporation

New York Office—61 Broadway, New York, N. Y. Sales Office—Atlanta, Ga., E. H. Westlake, Pres.; M. A. Caine, Vice Pres.; J. G. Greenburgh, Vice Pres. & Treas.; B. W. Bellinger, Vice Pres.; Henry Kaufman, Sec.

Atlanta Office. Handles Sales of Copper Sulphate, Manganese Sulphate, Ferric Sulphate and Zinc Sulphate and Es-Min-El Fertilizer Plants — Lockland (Cincinnati), Ohio; New Albany, Indiana; Tuscaloosa, Ala.; East Point, Cedarstown, Gainesville, Ga.; East Tampa, Fla. Products — Super-Triple Superphosphate, Complete Fertilizers, Loma Sodium, Silico Fluoride.

NORTH COLLINS

CEFH—G. L. F. Soil Building Service A Div. of Coop. G. L. F. Exchange, Inc.

J. C. Crissey, Plant Mgr.; Wm. Mason, Supt. 15,000 tons.

ONEIDA

The Baugh & Sons Company, Inc.

B. H. Brewster, Chairman of Board; F. White, Vice Chairman of Board; P. J. Prosser, Pres.; H. Williams, Vice-Pres. & Treas.; P. W. Sinwell, Vice Pres.; L. A. Krebs, Vice Pres.; B. H. Brewster, Jr., 2nd Vice Pres. & Asst. Sec.; Dorothy Q. Harper, 2nd Vice Pres. & Asst. Sec.; R. S. Hoffman, Sec.; T. Harrington, Mgr.

PHOENIX

C—The American Agricultural Chemical Company

Sales and Works,
P. O. Box 507 (Known as "Three Rivers.")
J. D. McMurray, Mgr.; D. C. Rapalje, Supt.

RIVERHEAD

C—Atlantic Fertilizer Corporation

Box 149. Z. R. Hallock, Pres.; Walter E. Stark, Treas.; Wm. C. Stark, Sec.; R. C. Tuthill, Plant Mgr. 15,000 tons.

CEG—Long Island Produce and Fertilizer Company, Inc.

C. C. Young, President; N. A. Talmage, G. H. Kaelin, R. T. Carey, Vice Presidents; Geo. Cushman, Treas. & General Mgr.; S. P. Batchelder, Sec. 20,000 tons. Branch Plants at Southold, N. Y. and Mattituck, N. Y.

ROCHESTER

CJ—Gormel Plant Food Products

C. J. Gormel, G. H. Gormel, Partnership. Chas. I. Diehl, Plant Mgr.; C. James Gormel, Pur. Agent. 1,000 tons.

SOUTHOLD, L. I.

CEG—Long Island Produce and Fertilizer Co., Inc.

Main Plant & Office at Riverhead, N. Y.

SYRACUSE

CJ—Syracuse Rendering Company

KEY: A—Complete plant; B—Superphosphate, mixed fertilizers C—Mixed fertilizer only; D—Sell goods manufactured for them

Branch of Consolidated Rendering Company, Boston, Mass. U. D. Woodward, Mgr. 8,000 tons.

INION HILL

C—Russell Fertilizer Works

Chas. P. Russell, Pres. & Sec.; B. C. Russell, Vice Pres.; J. M. Russell, Treas.; John Mogray, Supt., Factory Union Hill, N. Y. Phones Ontario, Williamson & Webster, N. Y. 2,000 tons.

WILLIAMSON

C—Russell Fertilizer Works

Chas. P. Russell, Pres. and Sec.; J. M. Russell, Treas.; B. C. Russell, Vice-Pres.; John E. Mogray, Supt. 2,000 tons. Plant at Union Hill, N. Y.

NORTH CAROLINA

ACME

AE—Acme Fertilizer Company

Thomas H. Wright Jr., Pres.; L. P. Campbell, Vice-Pres. & Sec.; T. E. Burns, Plant Mgr. 50,000 tons. Offices in Wilmington, N. C.

ANGIER

C—Jones Fertilizer Company

J. P. Jones, Owner. Capacity 2,000 tons.

CHARLOTTE

G—Alfo Liquid Fertilizer Co.

2109 Hutchinson Ave., P. O. Box 1662. Preston L. Delph, Pres.; T. A. Nodell, Vice Pres.; Mrs. R. I. Delph, Treas.; Mrs. Dorothy Sizemore, Sec.; J. L. Bass, Plant Mgr.; Mac Banks, Pur. Agent. 35,000 Gallons.

AJ—Planters Fertilizer & Phosphate Company

P. O. Box 1738. J. Ross Hanahan, Pres.; J. Ross Hanahan, Jr. & W. O. Hanahan, Vice-Presidents; W. B. Metts, Treas.; J. S. Hanahan, Sec. Charleston, S. C. 80,000, Charlotte, N. C.; C. R. Wright, Jr., Supt. 30,000 tons.

B—F. S. Royster Cuano Company

C. F. Burroughs, Pres.; W. T. Wright, F. S. Moore, F. S. Royster, Jr., Vice-Presidents; C. F. Burroughs, Jr., Treas.; Shepherd R. Cooke, Sec.; L. G. Powell, Mgr. Charlotte Sales Office; T. M. Williams, Supt. 50,000 tons.

B—Virginia-Carolina Chemical Corp.

Charlotte, N. C. (Factory). General Offices: Richmond, Va.

I. G. Wallace & Son

Mailing address Route 1, Matthews, N. C.

CLAYTON

Central Oil & Milling Co.

Paul Keller, Pres.

CLINTON

C—Ross Fertilizer Co.

P. O. Box 69. G. R. Ross & Clarence Kirven, Jr., Partners; C. C. Barefield, Plant Mgr. 5,000 tons.

DAVIDSON

C—The Southern Cotton Oil Company

Main Office, New Orleans, La. W. A. Thompson, Mgr. Davidson, N. C.

DUNN

CE—Johnson Cotton Company

Dunn, N. C. (Home Office) Wilmington, N. C. N. M. Johnson, Jr., Pres.; N. M. Johnson, Sr., Exec. Vice Pres.; W. J. Thompson, Vice Pres.; W. G. Smith, Sec. & Treas.; Earl West, Plant Mgr.; W. G. Smith, Prod. Mgr. 15,000 tons.

DURHAM

A—Virginia-Carolina Chemical Corp.

Durham, N. C. (Factory). General Offices: Richmond, Va.

EDENTON

C—Home Feed & Fertilizer Co.

P. O. Box 183. John G. Wood, Pres. & Treas.; Leila B. Wood, Vice-Pres.; W. G. Wood, Jr., Sec. 10,000 tons.

ELIZABETH CITY

C—Pasquotank Fertilizer Co.

P. O. Box 274. Partnership—C. L. Ball, Jr. & J. W. Ball. 5,000 tons. J. W. Ball, Active Partner.

FAIRMONT

C—Master Fertilizer Company, Inc.

P. R. Floyd, Jr., Pres.; Rosalie Baker, Sec. and Treas.; C. W. Barden, Plant Mgr.; P. R. Floyd, Jr., Prod. Mgr. 1,500 tons.

FARMVILLE

C—Farmville Oil & Fertilizer Company

600 W. Pine St. Irvin Morgan, Jr., Pres.; W. A. Pollard, Jr., Sec.; P. L. Clodfelter, Vice-Pres.; F. S. Moore, Treas.; Irvin Morgan, Jr., Plant Mgr. 20,000.

FAYETTEVILLE

Eastern Guano Co.

P. O. Box 811.

D—The Southern Cotton Oil Co.

Sales Office, Main Office, New Orleans, La. O. L. Stubbs, Mgr. Fayetteville, N. C.

FREMONT

CD—Fremont Oil Mill Company

Owned by stockholders; J. B. Lane, President; E. R. Lane, Vice-Pres.; Mrs. P. L. Hayes, Treas. and Sec.; W. R. Jones, Plant Mgr. 5,000 to 10,000 tons.

GIBSON

C—The Southern Cotton Oil Company

Main Office, New Orleans, La. A. J. Gardner, Mgr. Gibson, N. C.

GOLDSBORO

C—The Southern Cotton Oil Company

Main Office, New Orleans, La. District Office, Goldsboro, N. C. Manufacture and sales at following points: Fayetteville, Goldsboro, Hertford, Rocky Mount, Selma, Tarboro, Weldon and Wilson. W. V. Westmoreland, D. M. Goldsboro, N. C.

CD—Weil's Fertilizer Works, Inc.

Frank Seymour, President, Abram Weil, Vice-Pres.; Henry Weil; Sec. & Treas.; W. D. Edwards, Plant Mgr. 12,000 tons.

GREENSBORO

A—The American Agricultural Chemical Company

P. O. Box 1139. Sales Office and Factory. G. D. Littlejohn, Supt. Y. C. Hines, Mgr.

A—Armour Fertilizer Works

Harry H. Kemp, Div. Mgr. General Office, Atlanta, Ga.

A—Morris Fertilizer Company (Armour owned)

Same as Armour Fertilizer Works.

C—Swift & Company, Plant Food Division

W. H. Parker, Mgr.; P. O. Box 1313, Greensboro, N. C.

Virginia-Carolina Chemical Corp. (Sales Office). General Offices: Richmond, Va.

GREENVILLE

CDFGJ—Blount Fertilizer Company

J. H. Blount, Pres.; F. L. Blount, Vice-Pres.; A. R. Barrett, Treas.; M. K. Blount, Sec.; C. R. Right, Plant Mgr.; J. H. Blount, Jr., Pur. Agent. 20,000 tons.

C—Virginia-Carolina Chemical Corp. Greenville, N. C. Factory

General Offices: Richmond, Va.

HENDERSON

C—The American Agricultural Chemical Company

P. O. Box 690. Sales Office and Factory. W. H. Masters, Mgr.; S. B. Harris, Supt.

D—Miller Fertilizer Company

P. O. Drawer 319, D. Boyd Kimball, Pres. & Treas.; M. J. Smith, Sec.

HERTFORD

D—The Southern Cotton Oil Company

Main Office, New Orleans, La. C. P. Morris, Mgr. Hertford, N. C.

KINSTON

CD—Smith-Douglass Co., Inc.

West Bright St., (P. O. Box 596) R. B. Douglass, Pres. & Treas.; J. A. Monroe, W. B. Copeland, J. H. Culpepper & W. R. Ashburn, Vice Presidents; W. F. Powers, Sec.; S. L. Lott, Asst. Treas.; L. H. Jackson, Asst. Sec.; E. B. Peacock, Plant Mgr.; C. W. Moore, Supt.; J. A. Monroe, Pur. Agent. 35,000 tons.

LAURINBURG

BFGH—Dixie Guano Company

P. O. Box 152. Elwin Pate, President; Jno. F. McNair, Jr., Vice-Pres.; W. M. Campbell, Sec. & Treas. & Gen. Mgr.; C. L. Durham, Supt. 40,000 tons.

LUMBERTON

CGJ—Farmers Cooperative Exchange

C. E. McLaurin, Plant Mgr. 3,000 tons.

CDJ—Robeson Mfg. Company

P. O. Box 1096, Maxton Rd. Edwin Pate, Laurinburg, N. C. Pres.; F. K. Biggs, Sr., Vice Pres.; T. E. Holliday, Gen. Mgr. & Treas.; Mrs. Murch Butler, Sec.; T. H. Johnston, Supt.; T. E. Holliday, Mgr. Pesticide Div. 3,000 to 6,000 tons.

MATTHEWS—R. I.

C—I. G. Wallace and Son

Rama Rt. #1, (Near Charlotte) J. L. Wallace (Partnership). 40 tons per day. J. L. Wallace, Mgr.

MAXTON

CGH—Maxton Oil & Fertilizer Company

E. H. Evans, Pres.; J. D. Medlin, Vice-Pres. & Treas.; Mayme McQueen, Sec.; E. L. Taylor, Supt.; J. D. Medlin, Prod. Mgr. 5,000 tons.

MONROE

D—The Southern Cotton Oil Company

Main Office, New Orleans, La. W. W. Knox, Mgr. Monroe, N. C.

MOUNT OLIVE

C—Ricks Fertilizer Company

T. Nelson Ricks, Pres.; Edgar N. Ricks, Vice-Pres.; Wm. F. Ricks, Sec. and Treas. 4,000 tons.

NAVASSA

A—Armour Fertilizer Works

F. L. Wooten, Jr., Div. Mgr., General Office, Atlanta, Ga.

NEW BERN

Baugh & Sons Company

B. H. Brewster, Chairman of Board; F. White, Vice Chairman of Board; P. J. Prosser, Pres.; H. Williams, Vice Pres. & Treas.; P. W. Sinwell, Vice Pres.; L. A. Krebs, Vice Pres.; B. H. Brewster, Jr., 2nd Vice Pres. & Asst. Sec.; Dorothy Q. Harper, 2nd Vice Pres. & Asst. Sec.; R. S. Hoffman, Sec.; A. B. Verderdy, Div. Sales Mgr.

C—Dixie Chemical Corporation

Leo. H. Harvey, Pres.; N. S. Stokes, C. Felix Harvey, III, Vice-Pres.; D. C. Flowers, Sec. & Treas.; K. G. Johnson, Plant Supt. 30,000 tons.

C—New Bern Oil & Fertilizer Company

J. S. Weskett, Pres.; H. G. Swan, Vice-Pres.; W. W. McCotter, Sec. & Treas. 20,000 tons.

C—Virginia-Carolina Chemical Corp.

New Bern, N. C. (Factory). General Offices: Richmond, Va.

NEWTON

C—Newton Oil and Fertilizer Company

J. W. Abernethy, Pres.; H. L. Arndt, Vice-Pres.; F. F. Schrum, Sec. & Treas.; Lell Setzer, Plant Mgr. 2,500 tons.

PINE LEVEL

CG—The Pine Level Oil Mill Company

Box 48. Doc. R. Oliver, Pres. & Mgr.; D. Buren Oliver, Vice Pres.; R. E. Oliver, Sec. & Treas.; A. H. Wilkins, Plant Mgr. 10,000 tons.

RALEIGH

CDEGJ—Farmers Cooperative Exchange

A. M. Miller, Salisbury, N. C. Pres.; S. E. Boswell, Summerfield, N. C. Vice-Pres.; G. D. Arndt, Raleigh, N. C. Treas.; M. G. Mann, Raleigh, N. C. Sec. & Gen. Mgr.; Grayson B. Morris Coop. Fert. Service, Norfolk, Va. A. P. Sales, Mgr. Coop. Fert. Service, Richmond, Va. 6,000 tons.

International Minerals & Chemical Corp.

1802 Fairview Road. Sales Representative, North and South Carolina. W. S. Dennis, Sales Office Only.

DF—Robertson Chemical Corporation

Box 68.

C. B. Robertson, President; J. E. Ames, Jr., Vice-Pres.; R. S. Eggleston, Treasurer; J. Morton Eggleston, Secretary; C. W. Best, Production Manager; S. N. Carroll, Manager. 10,000 tons. Manufacture fertilizer (but not Sulphuric Acid or Superphosphate).

RED SPRINGS

CFGH—Liberty Manufacturing Co.

Edwin Pate, Pres.; E. H. Evans, Vice-Pres.; G. T. Ashford, Sec. & Treas.; James I. Owens, Jr., Supt. 7,000 tons.

ROCKINGHAM

CFGHJ—McLaurin's, Inc.

P. O. Box 869. E. Bert McLaurin, President; Joe M. McLaurin, Vice-Pres.; Mrs. B. F. McLaurin, Sec.; J. H. Gibson, Treas.; Harry Jeffords, Plant Mgr.; Joe M. McLaurin, Mgr. Pesticide Div. 5,000 tons.

ROCKY MOUNT

CGJ—Planters Cotton Oil & Fertilizer Company

R. D. Gorham, Pres.; W. M. Daughtridge, J. D. Robbins, W. T. Melvin, G. W. Gorham, Jr., Vice Presidents; J. L. Murphy, Treas.; T. H. Pitt, Sec.; C. J. Raynor, Supt.; G. W. Gorham, Jr., Prod. Mgr. Branch at Scotland Neck, N. C.

C—The Southern Cotton Oil Company

Main Office: New Orleans, La. J. E. Lambert, Jr., Mgr. Rocky Mt. N. C.

ROXBORO

C—Roxboro Chemical Corporation

Thomas R. Bennett, Pres.; Everett R. Jones, Vice Pres.; A. J. Bennett, Sec. & Treas. 10,000 tons.

SALISBURY

C—Cooperative Fertilizer Service Inc.

P. O. Box 1463. S. E. Boswell, Pres.; G. D. Arndt, Treas.; M. G. Mann, Sec.; G. B. Morris, Plant Mgr.; B. A. Weddington, Prod. Mgr. 20,000 tons. A. P. Sale, Pur. Agent.

SANFORD

CJ—Saponia Mills, Inc.

Tempe B. Barringer, Pres.; John Barringer, Vice-Pres.; Paul J. Barringer, Treas. 5,000 tons. Shipping point, Monroe Park, N. C. P. O., Sanford, N. C.

SCOTLAND NECK

CJ—Shields Company

Frank P. Shields, Mgr.; S. F. Johnson, Plant Mgr. 5,000 tons.

SELMA

D—The Southern Cotton Oil Company

Sales office, Main office, New Orleans, La. R. E. Suber, Mgr. Selma, N. C.

A—Virginia-Carolina Chemical Corp.

Selma, N. C. (Factory). General Offices: Richmond, Va.

SHELBY

C—D. A. Beam Company, Inc.

P. O. Box 206.

John A. Beam, President, Dennis A. Beam, Vice President; Miles A. Beam, Treas. and Sec. Edwin A. Beam, Gen. Mgr. A. Pinkney Dedmon, Plant Mgr. 10,000 tons.

C—The Southern Cotton Oil Company

Main Office, New Orleans, La. R. C. Barnett, Mgr., Shelby, N. C.

SMITHFIELD

C—Wallace Guano Company

Dixon Wallace, Pres.; L. L. Nordan, Vice Pres.; L. H. Wallace, Sec. & Treas.; L. L. Nordan, Plant Mgr.; L. L. Nordan & Dixon Wallace, Prod. Mgr. 5,000 tons.

STATESVILLE

CF—Robertson Chemical Corporation

C. B. Robertson, Pres.; J. E. Ames, Jr., Vice-Pres.; R. S. Eggleston, Treas.; J. L. Eley, Jr., Asst. Treas.; J. Morton Eggleston Sec.; C. W. Best, Prod. Mgr.; W. E. DeJarnette, Mgr.; M. K. Brown, Supt. 50,000 tons. Manufacture fertilizer but **not** Superphosphate or Sulphuric Acid.

TARBORO

D—F. S. Royster Guano Company

C. F. Burroughs, Pres.; W. T. Wright, F. E. Moore, F. S. Royster, Jr., Vice-Presidents; C. F. Burroughs, Jr., Treas.; Shepard R. Cooke, Sec.

WADESBORO

D—The Southern Cotton Oil Company

Main Office, New Orleans, La. K. M. Hardison, Mgr., Wadesboro, N. C.

C—Virginia-Carolina Chemical Corp.

Wadesboro, N. C. (Factory). General Offices: Richmond, Va.

CFGH—Wadesboro Fertilizer Company

R. T. B. Little, Mgr. 30 tons an hour.

WARRENTON

C—Warren Cotton and Fertilizer Company, Inc.

H. W. Rodwell, Pres.; C. E. Rodwell, Sec.-Treas. Corporation. J. P. Twitty, Plant Mgr. 3,000 tons.

WAYNESVILLE

C—Smoky Mountains Fertilizer Co.

P. O. Box 670. C. G. Thompson, Pres.; W. L. Harwell, Vice Pres.; C. G. Thompson, Treas.; E. F. Thompson, Sec.; Herman Downs, Supt.; C. G. Thompson, Prod. Mgr. 7,500 tons.

WELDON

D—The Southern Cotton Oil Company

Main Office, New Orleans, La. C. E. King, Mgr., Weldon, N. C.

WHITEVILLE

C—Reliance Guano Company, Inc.

F. R. Dulany, Pres. & Treas.; W. H. Read, Vice Pres.; Mrs. Mary D. Lovett, Sec.; C. D. Henderson, 12,000 tons.

WILLIAMSTON

CEGI—Mathieson Chemical Corporation

Mathieson Agricultural Chemicals Division

Standard Fertilizer Division—C. G. Crockett, Div. Mgr.; R. W. Bondurant, Supt. of Plants; J. C. Cooke, Mgr. Fert. Sales & Credit Mgr.; W. W. Tice, Mgr. Insecticide, Fungicide, & Herbicide Sales; S. L. Dilda, Mgr. Irrig. Eqpt. Sales.

WILMINGTON

AI—Acme Fertilizer Company

Plant, Acme, N. C. Thomas H. Wright, Sr., Chairman of Board; Thomas H. Wright, Jr. Pres.; L. P. Campbell, Vice-Pres.; N. J. Kelly, Treas. W. Clark Bellamy, Mgr. Pesticide Div. 50,000 tons.

A—Armour Fertilizer Works

See Navassa, N. C.

C—International Minerals & Chemical Corp.

Sales Office, Plant, J. F. Carroll, Dist. Sales Mgr.; J. B. Vanderwer, Supt.

CD—Johnson Cotton Co., Josey Fert. Corp.

P. O. Box 1259. N. M. Johnson, President. W. J. Thompson, Vice-Pres.; W. G. Smith, Sec. and Treas.; N. C. Littlejohn, Plant Mgr. 35,000 tons.

A—Morris Fertilizer Co.

(Armour owned) Same as Armour Fertilizer Wks.

CEFG—Naco Fertilizer Company

Box 180, Southern Bldg.

Main Office: New York, N. Y. Plants located At: Jacksonville, Fla.; Fort Pierce, Fla.; Wilmington, N. C.; Charleston, S. C.; Spartanburg, S. C.; Findlay, Ohio. John M. Blass, O. C. Minton, Vice Presidents; Fred C. Marshall, Treas.; John M. Blass, Plant Mgr.; G. A. Zeigler, Prod. Mgr.; W. M. Rohrer, Pur. Agent 60,000 tons.

C—Pearsall & Co.

J. W. Smith, Pres.; Malzar Pearsall, Jr. and Oscar Pearsall, Vice Presidents. M. W. Pearsall, Sec. 12,000 to 15,000 tons.

C—Robertson Chemical Corp.

C. B. Robertson, Pres.; J. E. Ames, Jr., Vice Pres.; R. S. Eggleston, Treas.; J. L. Eley, Jr., Asst. Treas.; J. Morton Eggleston, Sec.; C. W. Best, Prod. Mgr.; R. V. Fulk, Mgr.; J. C. Frye, Supt. 50,000 tons. Manufacturer.

C—F. S. Royster Guano Company

C. F. Burroughs, Pres.; W. T. Wright, F. S. Moore, F. S. Royster, Jr., Vice Presidents; C. F. Burroughs, Jr., Treas.; Shepard R. Cooke, Sec.; R. A. Parcelli, Supt. Sales Office, Norfolk, Va.; K. C. Robinson, Mgr.; Norfolk Sales Office. 45,000 tons.

ABCD—Smith-Douglass Co., Inc.

Main Office P. O. Box 419, Norfolk 1, Va. R. B. Douglass, Pres. & Treas.; W. B. Copeland, J. A. Monroe, J. H. Culpepper & W. R. Ashburn, Vice Presidents; W. F. Powers, Sec.; S. L. Lott, Asst. Treas.; L. H. Jackson, Asst. Sec. all of Norfolk, Va.

A—Swift & Company, Plant Food Division

J. S. Zapf, Mgr. Wilmington, N. C.

A—Virginia-Carolina Chemical Corp.

Wilmington, N. C. (Sales Office and Factory). General Offices: Richmond, Va.

C—Wilmington Fertilizer Co.

Box 700. Edwin Pate, Pres.; Herman N. Hayden, Vice Pres. & Treas.; R. M. Padrick, Jr., Sec.; George Sloan, Jr., Plant Mgr.; H. N. Haydon, Vice Pres. & Treas.

WILSON

B—Contentnea Guano Company

S. W. Anderson, Pres., Wilson, N. C.; Irvin Morgan, Vice-Pres. & Gen. Mgr., Farmville, N. C.; B. B. Plyler, Wilson, N. C., Sec. & Treas.; H. W. Cannon, Wilson, N. C.; Irvin Morgan, Production Mgr. 25,000/35,000 tons.

CF—Farmers Cotton Oil Co.

510 E. Barnes St. T. F. Bridgers, Pres.; C. P. Har-

ris, Vice-Pres.; Jno. L. Day, Sec.; H. M. Rogers, Treas.; R. G. Scruggs, Supt.; W. G. Bryant, Engineer, 50,000 tons.

C—The Southern Cotton Oil Co.
Main Office, New Orleans, La.
A. H. Wells, Mgr., Wilson, N. C.

WINSTON - SALEM

C—International Minerals & Chemical Corporation Plant
Frank Kimbrough, Supt.

CD—Weaver Fertilizer Company, Inc.

A. W. Weaver, Pres.; Clyde W. Bradshaw, Vice-Pres.; B. P. Eggleston, Jr., Sec.; W. S. Weaver, Treas.; P. W. Venable, Asst. Sec.; J. E. Landers, Plant Mgr. 25,000 tons.

NORTH DAKOTA

FARGO

C—Peavey Fertilizer, Div. of F. H. Peavey Co.

Plant address 1817 Great Northern Drive, Box 1916; Co. address Minneapolis, Minn. Lawrence Brown, Plant Mgr. 25,000 tons.

GRAND FORKS

CEG—Asco Chemicals, Inc.
700 N. 3rd St.
Dave Williams, Plant Mgr. 10,000 tons.

C—Summers Fertilizer Company
Highway 81 North.
J. E. Totman, Pres.; Ken Totman, Treas.; W. A. Stolt, Plant Mgr. 15,000 tons.

OHIO

ALLIANCE

CF—The Davison Chemical Corp.
M. C. Evans, Mgr.; R. M. Sloan, Asst. Mgr.; Supt. G. Round; C. C. Dorsey, Purchasing Dir. Baltimore, Md. 30,000 tons.

BELLEVUE

CDJ—Wm. C. Horn, Inc.
Wm. C. Horn, Pres. & Treas.; Florence E. Horn, Vice-Pres. & Sec.; James E. Whyde, Plant Mgr.; John P. Lafferty, Prod. Mgr. 2,000 tons.

CANTON

Baugh & Sons Company of Ohio—Canton

B. H. Brewster, Chairman of the Board; P. J. Prosser, Pres.; H. Williams, Vice Pres. & Treas.; P. W. Sinwell, Vice Pres.; L. A. Krebs, Vice Pres.; V. J. Leahy, Vice Pres.; Benjamin H. Brewster, Jr., Vice Pres. & Asst. Sec.; Dorothy Q. Harper, Vice Pres. & Asst. Sec.; R. S. Hoffman, Sec. & Comptroller; C. L. Thornton, Mgr.

CAREY

The Smith Agricultural Chemical Co.

Gen Office, Columbus, Ohio
W. W. Clark, Jr., Plant Mgr. 25,000 tons.

CINCINNATI

A—The American Agricultural Chemical Company

P. O. Box A, St. Bernard Station Sales office and Factory, St. Bernard Station. J. A. Hall, Mgr. H. B. Houghtaling, Supt.

B—Armour Fertilizer Works

B. F. Sutherland, Div. Mgr. General Office, Atlanta, Ga.

The Davison Chemical Corp.

Chairman of the Board, Chester F. Hockley; Vice Chairman of the Board, M. G. Geiger, Pres. R. L. Hockley; Vice Pres. Mixed Fert. Div., W. N. Watmough, Jr.; Vice Pres. Finance, M. C. Roop; Vice Pres. Marketing, D. N. Hauseman; Vice Presidents. C. E. Waring, W. B. McCloskey & P. W. Bachman; Treas. J. E. Hardesty; Controller, F. J. Griffin; Pur. Agent, C. C. Dorsey.

A—Virginia-Carolina Chemical Corp.

Cincinnati, Ohio. Sales Office and factory at St. Bernard, Ohio. General Offices: Richmond, Va.

CLEVELAND

A—The American Agricultural Chemical Company

West Park Station.
(Factory and Sales Office.)
Bernard Eiseltstein, Mgr.; A. M. MacDonald, Supt.

C—The Stadler Fertilizer Co.

1010 Denison Ave. J. F. Johnson, Chairman of the Board; W. W. Johnson, Pres. & Treas.; O. C. Herest, Vice Pres. & Sec.; V. E. Winans, Vice Pres. 20,000 tons.

B—Swift & Company

Plant Food Division. R. A. Culbertson, Mgr. Box 2740, West Park Station.

COLUMBUS

BF—The Davison Chemical Corporation

Home Office, Baltimore, Md.
8 E. Long St. M. C. Evans, Div. Mgr.; N. J. Gatterdam, Supt.; C. C. Dorsey, Pur. Dir. Baltimore, Md. 75,000 tons.

BGIJ—The Farm Bureau Cooperative Association, Inc.

W. N. Woods, Pres.; H. D. Heckathorn, Vice-Pres.; K. N. Probascos, Treas.; H. N. Wilson, Sec.; Robt. A. Garn, Div. Mgr. 100,000 tons. Plants located at Alliance, Dayton, Glenville, Maumee and Marietta, Ohio.

A—The Farmers Fertilizer Company

1380 Windsor Ave., P. O. Box

2002. R. K. Cooper, Pres.; H. E. Wood, Vice Pres. & Gen Mgr.; E. G. Schultz, Sec.; B. P. Redman, Jr., Asst. Sec.; I. C. Armistead, Treas. 50,000 Tons Fert., 50,000 Sul. Acid. Acid Plant—W. A. Hendrix, Fertilizer Plant—P. D. Sadler. B. P. Redman, Jr., Prod. Mgr.

B—Federal Chemical Co.

John V. Collis, (Louisville), President, J. D. Stewart, (Louisville) Vice President, W. Q. Harned, (Louisville) Treas. G. W. Shields, Vice Pres., (Louisville) N. S. Jones, Plant Mgr. 45,000 tons.

AIJ—The Smith Agricultural Co.

Jno. E. Powell, Pres.; Nelson T. White, 1st. Vice Pres. & Sales Mgr.; Marshall A. Smith, Vice Pres.; C. S. Schmelzer, Treas.; Carl E. Veth, Sec. & Pur. Agent; Frank H. Nicklaus, Supt.; Earl F. Cline, Prod. Mgr.; Hartl W. Lucks, Adv. Mgr. & Asst. Pur. Agent; Frank R. Schwartz, Jr., Research Engineer. Plants Indianapolis, Ind., Holland, Mich., Saginaw, Mich. Humus Plant at Carey, Ohio. 100,000 tons.

BE—Welch Chemical Division of The Davison Chemical Corp.

Chester F. Hockley, Pres.; M. G. Geiger, R. L. Hockey, K. D. Morrison, G. M. Hubbard, C. E. Warling, Vice-Pres.; M. C. Roop, Sec. & Treas.; H. F. Clayton, Supt.; N. J. Gotterdam, Prod. Mgr. Welch Chemical Division, M. C. Evans. Plant Baltimore—Curtis Bay—Main Plant.

DAYTON

C—The Miami Fertilizer Co.

Dabel Branch — Box 97. C. R. Martin, Pres.; Charles F. Martin, V. Pres. & Sec.; Glenn J. Noggle, Plant Mgr.; Clarence E. Crickmore, Prod. Mgr.; C. R. Martin, Pur. Agent. 25,000 tons.

FINDLAY

CEGIJ—Naco Fertilizer Co.

P. O. Box 87.
Main Office New York, N. Y.
Plants: Jacksonville, Fla., Ft. Pierce, Fla.; Charleston, S. C.; Spartanburg, S. C.; Findlay, Ohio. J. M. Blass, Vice Pres.; O. C. Minton, Vice Pres.; F. Marshall, Treas.; John R. Detgen, Plant Mgr.; G. A. Zeigler, Prod. Mgr.; W. M. Rohrer, Pur. Agent 20,000 tons.

FOSTORIA

Baugh & Sons Company of Ohio

B. H. Brewster, Chairman of the Board; P. J. Prosser, Pres.; H. Williams, Vice Pres. & Treas.; P. W. Sinwell, Vice Pres.; L. A. Krebs, Vice Pres.; V. J. Leahy,

Vice Pres.; Benjamin H. Brewster, Jr., Vice Pres. & Asst. Sec.; Dorothy Q. Harper, Vice Pres. & Asst. Sec.; R. S. Hoffman, Sec. & Comptroller; S. R. Babylon, Mgr.

CF—Ohio Farmers Grain & Supply Assn.

County Line St. Elmer Ohlemacher, Pres.; Alfred Eier, Vice Pres.; S. E. Salisbury, Mgr.; Earl Neuman, Plant Mgr.; Chas. Pritchard, Pur. Agent. 15,000 tons.

GIBSONBURG

CDI—Gibsonburg Coal and Fertilizer Co.

Box 93.
D. D. Younker, Owner, Plant Mgr. 5,000 tons.

GREENVILLE

C—Swift and Co. Plant Food Division

Greenville, Ohio. P. E. Nordaker, Mgr. Box 138.

LOCKLAND

CF—Green Leaf Fertilizer Co.

Trumbull County. Lee J. Pelen, Owner; Miles W. Lewis, Plant Mgr. 4,000 tons.

A—International Minerals & Chemical Corporation

Mail address: Lockland Station, Cincinnati, Ohio. Harold Douthit, Area Mgr., Sales Office, Plant, J. K. Lindsey, District Sales Manager; C. A. Willenbrink, Supt.

BE—Tennessee Corporation

General Office, 61 Broadway, New York, N. Y.; L. J. Pettett, Gen. Mgr., Lockland, Ohio. 100,000 tons.

MARIETTA

GI—American Liquid Fertilizer Co., Inc.

2nd St. at St. Clair.
Ernst Whitaker, Pres. & Treas.; Andrew L. Roddy, Sec.; Herbert Warden, Plant Mgr.; F. Hoff & Ernst Whitaker, Pur. Mgr. 100,000 gallons Liquid Fertilizer.

MARION

CF—Marion Plant Life Fertilizer Co.

West Center at Nye St.
George H. Alber, Pres.; Irvin P. Lockstead, Plant Mgr. 18,000 tons.

CG—Na-Churs—Plant Food Co.

421 Monroe St. B. Peterson, Chairman of the Board; H. A. Petrich, Pres.; T. L. Martin, Vice Pres.; R. L. Morgan, Treas.; John D. House, Advertising Mgr.; R. A. Bagley, Sales Mgr.; P. A. Peterson, Prod. Mgr.

MARYSVILLE

C—O. M. Scott and Sons Co.

C. B. Mills, Pres.; H. C. Doellinger, Prod. Mgr. 15,000 tons.

NAPOLEON

Midwest Plant Food Inc.

Jno. Peiblow, Treas., Mgr. L. E. Frank, Supt. 10,000 tons.

NEW LEXINGTON

A—Nutritional Concentrates, Inc.

C. H. Snyder, Pres.; E. W. Rebbeck, Vice Pres.; Gordon L. Uhl, Sec.-Treas.; J. M. Dixon, Asst. Sec. & Asst. Treas.; M. D. Thompson, Plant Mgr. Tons not determined.

ST. BERNARD

(Cincinnati)

A—Virginia-Carolina Chemical Corporation

(Factory) General office: Richmond, Va.

SANDUSKY

A—Armour Fertilizer Works

R. G. Crammond, Div. Mgr.; General office, Atlanta, Ga.

AE—The Diamond Fertilizer Company

W. J. Sprow, Pres.; H. C. Fisher, Executive Vice-Pres.; Howard K. Morgan & A. W. Sprow, Vice-presidents; H. C. Fisher, Treas.; H. K. Morgan, Sec.; Thomas Hill, Plant Mgr. 50,000 tons.

SILICA (Post Office, Sylvania)

B—E. Rauh & Sons Fertilizer Company

P. O., Sylvania, Ohio. S. J. Martenet, Pres.; R. D. Martenet and L. E. Little, Vice-Presidents; Jno. J. Weldon, Treas.; H. M. Lee, Sec. A. C. Plikerd, Supt. Silica Plant. Plant located at Silicia. 50,000 tons.

TOLEDO

A—F. S. Royster Guano Company

C. F. Burroughs, Pres.; F. S. Royster, Jr., W. T. Wright, F. S. Moore, Vice-Pres.; C. F. Burroughs, Jr., Treas.; Sheppard R. Cooke, Sec.; W. G. Ellis, Mgr. Toledo Sales Office; Alex Cohen, Supt. 80,000 tons.

C—Toledo Div. Sewage Disposal

Bay View Park. A. H. Niles, Engineer-Supt. 1,200 tons Sewage Sludge.

CD—The Woodville Lime Products Company

2140 Jefferson Ave.
H. T. Rex, Pres.; Geo. C. Urschel, Vice-Pres. & Treas.; C. R. Rex, Vice-Pres.; J. M. Berns, Sec. 60,000 tons. Plant at Woodville.

WASHINGTON, C. H.

CF—The M. Hamm Company

P. O. Box 63.

V. R. McCoy, Pres. and Treas.; J. Warren Hicks, Sec. & Vice Pres.; Reason J. Annon, Plant Mgr. 20,000 tons.

WEILERSVILLE

CF—Tyler Grain & Fertilizer Company

Walter F. Tyler, Pres. & Treas.; Portia Armstrong, Sec.; Donald Hartzler, Plant Mgr.; Walter F. Tyler, Pur. Agent. 10,000 tons.

WOODVILLE

CF—The Woodville Lime Products Company

Plant & Quarries: Woodville, H. T. Rex, Pres.; G. C. Urschel and Dr. C. R. Rex, Vice-Pres.; G. C. Urschel, Treas.; Julius Berns, Sec.; Dr. C. R. Rex, Asst. Sec. Office Toledo, Ohio. 60,000 tons.

WOOSTER

CF—Tyler Grain & Fertilizer Co.

619 Madison Ave. Walter F. Tyler, Pres. and Treas.; Portia Armstrong, Sec.; Donald L. Hartzler, Plant Mgr.; Walter F. Tyler, Pur. Agent. 10,000.

WORTHINGTON

CG—Fertilene Corporation of America

1023 Proprietors Road.
E. J. Frank, Pres.; M. Ross, Vice Pres.; Maurice Ross, Plant Mgr.; Maurice Ross, Prod. Mgr.; E. J. Frank, Pur. Agent. 75,000 gallons.

OKLAHOMA

BARTLESVILLE

CF—Crawford Chemical Co., Inc.

Drawer 309.

C. C. Crawford, Pres.; Wm. A. Riggs, Vice Pres.; W. G. Hensley, Sec.-Treas.; C. E. Allen, Plant Mgr.; W. G. Hensley, Pur. Agent. 20,000.

CF—Philips Chemical Company, Fertilizer Sales Division

K. S. Adams, Chairman; Paul Endacott, Pres.; T. L. Cabbage, Vice Pres. & Gen. Mgr.; B. F. Stradley, Treas.; P. J. Parker, Sec.; L. H. Wright, Mgr. Fert. Sales Division, R. G. Rhodes, Supt. Adams Terminal; J. B. Scott, Prod. Mgr., Adams Terminal; C. W. Forman, Supt. Cactus Plant; R. S. Ogilvie, Prod. Mgr. Cactus Plant; A. F. Legatski, Supt., Goldsmith Plant. District Offices — 6th Floor, WOW Bldg., Omaha 2, Nebr. 610-612—Royster Bldg., Norfolk.

10. Va. 604 City Natl. Bank Bldg., Houston 2, Texas. First Natl. Bank Bldg., Amarillo, Texas, 7 Terrace Office Bldg., Tampa 2, Fla.

BD—Sunset Fertilizer Co., Inc.

Drawer 309, C. C. Crawford, Pres.; W. A. Riggs, Vice Pres.; W. G. Hensley, Sec.-Treas.; J. D. Acree, Plant Mgr.; H. H. Barnes, Prod. Mgr.; C. C. Crawford, Pur. Agent. 30,000 tons.

MUSKOGEE

B—Consumers Coop. Ass'n. Fertilizer Plant

Box 1605. Howard A. Cowden, Kansas City, Mo. Pres.; T. H. Dewitt, Vice-Pres.; Clifford Miller, Sec. & Treas.; John Smart, Supt.; Ralph E. Page, Plant Mgr.; Merle Blue, of Kansas City, Prod. Mgr.; S. A. White, Pur. Agent; Ralph E. Page, Mgr. Fert. Dept. 55,000 tons.

OKLAHOMA CITY

B—Oklahoma Fertilizer & Chemical Co.

P. O. Box 1614. Plant location—LeCox, Okla. Lester E. Cox, Pres.; Joseph M. Griffin, Vice Pres.; Lester L. Cox, Sec.; Norman G. Jones, Treas. & Plant Mgr.; John J. Souter, Prod. Mgr. 40,000 tons.

TULSA

B—Thurston Chemical Company

F. C. Moore, Plant Supt. Annual 100,000 tons.

OREGON

ALBANY

CDEFGIJ—Charles H. Lilly Company

C. F. Larsen, Pres. & Gen. Mgr.; J. C. Jones, Vice Pres.; K. Von Normann, Vice Pres.; Lee Fryer, Mgr. Fertilizer Dept. 10,000 tons.

AMITY

Burlingham-Meeker Lime Co.

ATHENA

Farm Chemicals, Inc.

CORNELIUS

CFJ—Dugdale & Sons Fert. Co.
Box 526. Robt. Dugdale, Pres.; Howard J. Dugdale, Sec. & Treas.

EUGENE

C—Eugene Chemical Works
P. O. Box 424.
Partner Tony Tosta.
300 tons of Fertilizer, 300 tons other products.

HILLSBORO

CD—Birds Eye—Snyder Division General Foods Corp.

Martin Senko, Plant Mgr.; W. O. Joos, Prod. Mgr. 4,000 tons.

KLAMATH FALLS

C—Simplot Soilbuilders of Klamath Falls, Inc.

Ben McCollum, Mgr.

MADRAS

DE—Chemicals Division of Pacific Supply Cooperative.

Charles Baker, Pres.; W. B. Harris, Treas.; Paul Barnes, Mgr. 2,000 tons.

MEDFORD

CF—Southern Oregon Sales, Inc.

Mrs. Marian Riegel, Pres.; A. E. Brockway, Vice-Pres.; Melvin J. Lattie, Treas.; Dunbar Carpenter, Sec.; C. W. Guches, Plant Supt.; Paul H. Skinner, Fert. Prod. Mgr.

NORTH PORTLAND

C—Swift & Company Plant Food Division

Mgr., E. B. Shipley, North Portland, Oregon.

ABI—Stauffer Chemical Co.

Pacific Northwest Division

P. O. Box 68. Dan J. Keating, Div. Mgr.; John B. Gay, Plant Supt., North Portland, Oreg.; John B. Wheeler, Supt. Tacoma, Wash.

ONTARIO

A—Pacific Supply Cooperative—Fertilizer Div.

P. O. Box 130. O. D. Dearborn, Plant Mgr.; Karl E. Baur, Prod. Mgr. Also Mgr. Pesticide Div.; O. D. Dearborn, Plant Mgr.; R. W. Duncan, Jr. 1,500 tons.

CF—Valley Wholesale & Warehouse Co.

149 S. E. 1st St.
Ed Oakes, Pres.; D. W. Powers, Sr., Sec. & Treas.; W. M. Murphy, Prod. Mgr.; D. W. Powers, Pur. Agent. 6,000 tons.

OSWEGO

CF—Oregon Portland Cement Co.

Office 111 S. E. Madison St., Portland, Oregon. Plant P. O. Box 567, Oswego. Frank E. McCaslin, Pres.; D. H. Leche, Vice-Pres.; H. P. Davidson, Treas.; Lee Parsons, Sec.; Melvin F. Munch, Supt.; H. R. Shipley, Plant Mgr. 75,000 tons.

PORTRND

AEIJ—Chemicals Division, Pacific Supply Cooperative.

1923 N.W. Vaughn, P. O. Box 3819.
Karl E. Baur, Plant Mgr.; R. W. Duncan, Jr., Pur. Agent. 10,000 tons.

CDFI—Fortified Farm Products Co.

1853 S.W. Jefferson St.
Don Parker, Pres.; Robt. P. Winchester, Plant Mgr.; Don Parker, Mgr. Pesticide Div. 10,000

CI—Marine By Products Fertilizer Co., Inc.

1039 N.W. 13th St.
W. R. Lebo, Pres.; Maurice N. Eben, Vice-Pres.; P. E. Harris, Sec. and Treas. M. F. Briggs, Plant Mgr.; P. E. Harris, Mgr. Pesticide Div. 5,000 tons.

BGI—Miller Products Company

Roy E. Miller, Pres.; Irl L. Olmsted, Vice-Pres.; G. G. Jarrett, Treas. & Pur. Agent; A. Bjornson, Sec.; Frank B. Stewart, Prod. Mgr.; Roy E. Miller, Mgr. Pesticide Div.

CJ—Oregon-Washington Fertilizer Co.

Company, 2011 N. W. York St. Wm. Chorlton, Plant Mgr., Portland, Oreg. & Seattle, Wash. two Plants 20,000 tons.

DGIJ—Van Waters & Rogers, Inc.

3950 N. W. Yeon Ave. E. L. Bates, Pur. Agent.

C—Webfoot Fertilizer Co., Inc.

202 S.E. Stark St.
F. E. Peterson, Pres.; Maude Peterson, Vice-Pres.; Alec Runzman, Sec. & Treas. 15,000 tons.

CI—Wilbur-Ellis Co.

Terminal Sales Bldg. 1220 S. W. Morrison St. Branch of Wilbur-Ellis Co., San Francisco, Calif. & Seattle, Wash. John Stevens, Plant at Seattle, Wash.; C. E. Beckwith, Prod. Mgr. at Seattle, Wash.; Alfred J. Herman, 5 to 1,000 tons.

REDMOND

B—Fred Hodecker

Drawer 401. Partnership of Fred Hodecker & Willetta Hodecker.

SALEM

B—Meeker-Hughes, Co., Inc.

520 Trade St.
J. Ross Hughes, Pres. & Pur. Agent; P. E. Meeker, Vice-Pres.; Frank A. Meeker, Sec.-Treas. & Pur. Agent; R. E. Blackman, Plant Mgr. 7,000 tons.

WARRENTON

BC—Bioproducts, Oreg. Ltd.

R. T. Carruthers, Pres.; J. P. Trullinger, Sec.-Treas. 3,000 tons. Harold Cartington, Plant Mgr.

WOODBURN

C—Woodburn Feed and Supply Company

868 N. Front St.
L. H. Hildebrandt, Plant Mgr. 2,000 tons.

KEY: A—Complete plant; B—Superphosphate, mixed fertilizers; C—Mixed fertilizer only; D—Sell goods manufactured for them.

PENNSYLVANIA

ALLENTOWN

CGIJ—**Robert B. Peters Co.**
739 N. 7th St. Robert B. Peters,
Proprietor. 500 tons.

CFJ—**Robert A. Reichard, Inc.**
19th & West Lawrence Sts. Clarence A. Reichard, Pres.; Howard E. Reichard, Vice Pres.; Eugene A. Reichard, Treas.; Herbert E. Krock, Sec. 20,000 tons.

AMBLER

CGI—**American Chemical Paint Co.**
Leon Cherksey, Pres.; G. C. Romig, Vice Pres.; W. Graham Smith, Plant Mgr.; E. A. Snyder, Pur. Agent.

BUTLER

CE—**Central Chemical Corp.**
F. M. Thomas, Pres.; M. C. Morton, Vice-Pres.; F. S. Schwartz, Treas.; G. H. Thomas, Sec.; W. L. Murrin, Plant Mgr.; D. F. Neikirk, Pur. Agent. 15,000 tons.

CARLISLE

CD—**Adco Works**
333 W. High St.
Dr. F. M. Lawrence, Director;
L. M. Lawrence, Vice-Pres.; H. M. Brane, Sec. & Treas.

C—**Carlisle Fertilizer Wks., Inc.**
P. O. Sunday, Pres.; H. S. Roop, Sec. & Treas. 1,000 tons.

CHESTER

Medford's, Inc.
18-40 W. 2nd St.

COATESVILLE

CHJ—**Koller Fertilizer Company**
Partnership. T. H. Koller, Pur. Agent. (Branch of York, Pa.) 10,000 tons.

DU BOIS

CIJ—**Swack Fertilizer Company**
John T. Swack, Pres. & Pur. Agent; Robert A. Swack, Vice-Pres. & Prod. Mgr.; M. E. Hubbs, Sec. & Treas.; Robert A. Swack, Plant Mgr. 10,000 tons.

DRUMORE

Keystone Grange Exchange

ELIZABETHTOWN

C—**Farmers' Fertilizer Works**
J. H. Buch, Pres.; J. K. Garman, Vice-Pres.; J. B. Schneitman, Treas.; J. W. Staman, Sec.; W. B. Schneitman, Asst. Sec.; W. G. Hawthorne, Gen'l. Mgr. 8,000 tons.

EPHRATA

C—**Lancaster Bone Fertilizer Company**

H. W. Huffnagel, Pres. Plants at Quarryville and Oxford, Pa. Total 20,000 tons.

ERIE

C—**The Erie Reduction Co.**

A. B. Dickman, Pres.; D. E. Shields, Vice-Pres.; P. J. Shields, Treas.; B. M. Whiteley, Sec.; 3,500 tons.

Schaffner Bros. Co.

641 E. 15th St.

ESPY

Fred E. Lord, Inc.

Fred E. Lord, Pres.; D. W. Whitmire, Vice Pres.; Alvin Stauffer, Sec. & Treas.

EVERETT

CIJ—**Central Chemical Corp.**

F. M. Thomas, Pres.; M. C. Morton, Vice Pres.; F. S. Schwartz, Treas.; Simon J. Pile, Plant Mgr.; D. Fred Neikirk, Pur. Agent.

GETTYSBURG

CFJ—**Central Chemical Corp.**

Franklin M. Thomas, Pres.; McKinley C. Morton, Vice-Pres.; Frank S. Schwartz, Treas.; Donald R. White, Supt.; C. E. Oyler, Prod. Mgr.; Fred Neikirk, Pur. Agent; Donald R. White, Mgr. Pesticide Div. 8,000 tons.

GLEN ROCK (Seitzland)

CF—**Koller Fertilizer Company, Inc.**
Partnership. 9,000 tons.

HANOVER

CGI—**Miller Chemical and Fert. Corp.**

W. Newton Long, Pres.; O. Neuman, Jr. Thos. L. Smith, A. T. Bradley and A. G. Fischer, Vice-Pres.; L. W. Cameron, Treas.; J. F. Miller, Sec.; A. G. Fischer, Plant Mgr. Factories: Whiteford, Md.; Hanover, Pa.; Salisbury, Md.; Baltimore, Md. 30,000 tons.

DFGHJ—**Union Fertilizer Corporation**

Box 311.
A. S. Sergent, Pres.; Jesse Miller, Vice-Pres.; Harold F. Long, C. E. Carr, Asst. Treas.; W. Newton Long, Jr., Sec. 10,000 tons.

HARRISBURG

CFJ—**Pennsylvania Farm Bureau Cooperative Association**

3609 Derry St.
Leon B. Epler, Pres.; Nelson L. Fisher, Vice-Pres.; L. A. Thomas, Jr., Treas.; Mark Hess, Sec.; O. P. Bernhardt, Jr., Plant Mgr. Plant located at Baltimore, Md. 110,000 tons.

HERSHEY

C—**Hershey Estates**

KINGSTON

BI—**The DeWitt Chemical Co.**

303 Market St. H. C. Jeter, Pres.; F. E. Parkhurst, III, Treas.; A. D. Smith, Vice Pres. & Treas.; J. L. McDonald, Sec.

KITTANNING

CI—**Eastern States Farmers' Exchange, Inc.**

P. O. Box 287. Quentin Reynolds, Gen. Mgr.; M. E. Pike, Treas.; C. H. Kelso, Plant Mgr.; J. R. Myers, Fert. Prod. Mgr. 25,000 tons.

LANCASTER

CFIJ—**Organic Plant Food Co.**

P. O. Box 132.
Norman B. Brubaker, Pres.; J. Robert Leibley, Treas. Mary B. Brubaker, Sec.; Norman B. Brubaker, Plant Mgr.; Norman B. Brubaker, Pur. Agent. 2,000 to 3,000 tons.

LEBANON

Central Chemical Corp. of Lebanon
Vernon Bishop, Pres.; Arthur M. Mohler, Mgr.

CFGHI—**Mathieson Chemical Corporation**

Mathieson Agricultural Chemicals Division

Lebanon Fertilizer Div.: F. J. McQuade, Mgr.; Mary J. Kleiser, Off. Mgr.; A. P. Ream, Plant Mgr.

McKEESPORT

CDGI—**Kelly Agricultural Products Co., Inc.**

603 Walnut St. Philip P. Rosette, Pres.; M. F. Hoover, Treas.; Frank M. Wolf, Jr., Sec.; James A. Wargo, Plant Mgr.; Anthony Rosette, Prod. Mgr.; Philip P. Rosette, Pur. Agent. 2,200 tons.

MILTON

FI—**Central Chemical Corp.**

303 Railroad Ave.
F. M. Thomas, Pres.; M. C. Morton, Vice-Pres. F. S. Schwartz, Sec.; Chester G. James, Plant Mgr. & Pesticide Div. D. F. Neikirk, Pur. Agent. 20,000 tons.

OXFORD

Lancaster Bone Fert. Co.

H. W. Huffnagle, Mgr.

PARADISE

CFI—**Amos Eby & Company**

S. Clayton Ronck, Partner; Robert E. Ronck, Partner; Milton Hershey, Plant Mgr. 10,000 tons.

PHILADELPHIA

B—**Baugh & Sons Company**

Philadelphia, Pa. Office—20 S. Delaware Avenue. Plant—1701 S. Delaware Avenue. B. H. Brewster, Chair. of the Board; P. J. Prosser, Pres.; H. Williams, Vice Pres. & Treas.; P. W. Sin-

well, Vice Pres.; L. A. Krebs, Vice Pres.; V. J. Leahy, Vice Pres.; Benjamin H. Brewster, Jr., Vice Pres. & Asst. Sec.; Dorothy Q. Harper, Vice Pres. & Asst. Sec.; R. S. Hoffman, Sec. & Comptroller; R. W. Gutheil, Mgr.—Office; C. S. Clarkson, Supt.—Plant.

C—Independent Mfg. Company

H. J. Smith—R. E. Smith, Partners; Thacher Foss, Plant Mgr.; H. J. Smith, Prod. Mgr. 3,000 tons.

Penn Fruit Company, Inc.

1500 E. Erie Ave.

CD—M. L. Shoemaker Company

Delaware Ave. & Venango St.
R. O. Fisher, Supt. Estimated
Tonnage 8,000.

CF—F. W. Tunnell & Co., Inc.

15 N. 5th St.
F. H. Tunnell, Pres.; B. A. Tunnell, Vice-Pres.; Ira C. Young, Treas.; D. S. Tunnell, Sec.; E. N. Angus, Plant Mgr.; A. E. Horner, Prod. Mgr.; R. E. Deal, Pur. Agent. 40,000 tons.

PITTSBURGH

United States Steel Corporation (Formerly Listed As U. S. Steel Company)

525 William Penn Place, Pittsburgh 30, Pennsylvania. C. F. Hood, President; H. E. Isham, Vice Pres. & Treas.; B. L. Rawlings, Sec. & Asst. Gen. Counsel; C. A. Ilgenfritz, Vice Pres., Purchases; C. W. Baldwin, Director of Coal Chemical Sales Division.

QUARRYVILLE

CF—Lancaster Bone and Fertilizer Company

H. W. Huffnagle, Pres.; M. B. Huffnagle, Vice-Pres.; S. E. Glisson, Treas. and Sec. Plants at Quarryville, Ephrata and Oxford, Pa. Total 20,000 tons.

READING

ABCJ—Reading Bone Fertilizer Co.

P. O. Box 232.
A. A. Schultz, Pres.; W. A. Schultz, Vice-Pres. & Plant Mgr.; Allen Willits, Sec. and Treas.; W. A. Schultz, Plant Mgr. 15,000 tons.

SHARON

Roux Feed Mills

J. B. Roux, Pres.; J. B. Roux, Jr., Vice-Pres. & Treas.; L. F. Roux, Sec. 1,000 to 1,500 tons.

SHIPPENSBURG

CDF—Cumberland Valley Cooperative Association

Walter C. Nickles, Treas.; Floyd M. Mains, Pur. Agent. 2,500 tons.

SILVER SPRING

Lloyd W. Nolt

SOMERSET

CE—A. D. Graham and Co., Inc.

A. D. Graham, Pres.; M. Elizabeth Graham, Sec. & Treas. 10,000 tons.

UNION CITY

CFGJ—G.L.F. Soil Building Service

J. C. Crissey, Pres.; James H. Starr, Plant Mgr.; E. J. Smith, Prod. Mgr.; R. B. Lenhart, Pur. Agent. 25,000 tons.

UPPER DARBY

Paul J. Devitt
69th & Market Sts.

WILLIAMSPORT

Keystone Tanning and Glue Co.

W. B. Strunk, Vice-Pres.; Irving S. Ellison, Sales Mgr.; W. M. McCloskey, Supt. Fertilizer tankage 350 tons.

YORK

CGIJ—Eastern States Farmers' Exchange, Inc.

Fertilizer Production Division, P. O. Box 29. Quentin Reynolds, Gen. Mgr. West Springfield, Mass.; J. Raymond Myers, in Charge of Production, York, Pa.; Annual tons—Cambridge, Mass. 50,000—York, Pa. 30,000—Wilmington, Del. 15,000—Kittanning, Pa. 20,000 tons.

CF—York Stone & Supply Co.

Roosevelt Ave. Extd. George L. Cramer, Pres.; Frederick W. Cramer, Vice Pres.; Amos Raftensberger, Sec. & Treas.; Raymond S. Ott, Plant Mgr.; George L. Cramer, Pur. Agent. 30,000 tons.

RHODE ISLAND

EAST PROVIDENCE

CDH—Fox Point Chemical Co.
49 Valley St.—Office—Plant Fox Point.

L. M. Weyker, Pres.; A. J. LaPrise, Vice-Pres.; T. J. Whelan, Treas. & Plant Mgr. 20,000 tons.

FOX POINT

CDF—Fox Point Chemical Co.
Plant—Office 49 Valley St., E. Providence, R. I.

L. M. Weyker, Pres.; A. J. LaPrise, Vice-Pres.; T. J. Whelan, Treas. & Plant Mgr. 20,000 tons.

PROVIDENCE

DEGJ—Woodworth Bradley, Inc.

Woodworth Bradley, Pres.; Chas. Bradley, Vice-Pres.; Gerald B. Simonetti, Treas.; J. J. O'Connor, Sec. Woodworth Bradley, Plant Mgr.

SOUTH CAROLINA

ABBEVILLE

D—The Southern Cotton Oil Company

Main Office, New Orleans, La.
T. M. Cheatham, Mgr. Abbeville, S. C.

AIKEN

C—Aiken Fertilizer Company

P. O. Box 504
Mrs. Rosa F. Prothro, Owner
and Mgr. D. B. Arthur, Plant
Mgr.; W. D. Gregorie, Jr., Plant
Prod. Mgr.; J. D. Prothro, Pur.
Agent. 2,000 tons.

ALLENDALE

CF—Allendale Fertilizer Co.

J. V. Spigener, Sr., Vice-Pres.
1,000 tons.

D—The Southern Cotton Oil Company

Main office, New Orleans, La.
J. A. Barker, Mgr., Allendale,
S. C.

ANDERSON

AB—Anderson Fertilizer Co., Inc.

P. O. Box 138.
George W. Gage, Pres. and Gen.
Mgr.; A. B. Jackson, Vice-Pres.;
W. H. Farmer, Treas.; B. D.
Smith, Sec. E. U. Campbell,
Plant Engineer. 30,000 tons.

CE—McLess Fert. Co.

500 S. Murray.
F. C. McLess, Pres.; Katherine
H. McLess, Vice-Pres.; F. C. McLess,
Treas. & Plant Mgr.; Katherine
H. McLess, Sec. 5,000 tons.

ANGELUS

C—C. M. Jordan

600 tons.

BAMBERG

CD—Rentz and Felder

Operated by H. L. Free. 1,000 tons.

BATESBURG

C—Batesburg Fertilizer Company

A. C. Jones, Jr., Pres. & Treas.;
Josephine Jones Stoddard, Vice-
Pres.; Wm. Cook, Sec.; A. C.
Jones, Plant Mgr. 10,000 tons.

BENNETTSVILLE

D—The Southern Cotton Oil Company

Main office, New Orleans, La.
Geo. L. Hooks, Mgr., Bennettsville, S. C.

BLACKVILLE

CE—Brown Fertilizer Co., Inc.

D. Stanley Brown, Pres.; Herman Brown, Sec. & Treas. 8,500 tons.

KEY: A—Complete plant; B—Superphosphate, mixed fertilizers; C—Mixed fertilizer only; D—Sell goods manufactured for them.

CAMDEN

D—The Southern Cotton Oil Company

Main office, New Orleans, La. Thomas Ancrum, Mgr., Camden, S. C.

CHARLESTON

A—The American Agricultural Chemical Company

P. O. Box 834. Sales Office and Factory. E. L. Ready, Jr., Mgr.; J. B. Alley, Supt.

Carolina Phosphate Products Company

W. A. Hutchinson, President & Treas.; Bruce E. Taylor, Sec. 30,000 tons.

C—Etiwan Fertilizer Company

W. R. Sullivan, Pres.; James G. Gibbs, Vice-Pres.; H. S. Means, Sec.; Elias Ball, Treas.; J. H. Kelly, Supt. 25,000 tons.

C—Logan-Robinson Fertilizer Company

502 Peoples Bldg. W. Hampton Logan, Sr., Pres.; W. Hampton Logan, Jr., Vice-Pres.; W. Allan Moore, Jr., Treas.; J. C. McManus, Sec. E. W. Weekly, Supt. 30,000 tons.

C—Maybank Fertilizer Corporation

David Maybank, Pres.; John E. F. Maybank, Vice-Pres.; Augustus T. Curtis, Gen. Mgr. and Treas.; S. Mortimer Clement, Sec.; Wm. R. Webb, Supt. 30,000 tons.

CI—Molony Fertilizer Company

John C. Molony, Pres.; John H. Schachte, Vice-Pres. R. D. Molony, Supt. 30,000 tons.

AEFGI—Naco Fertilizer Company

P. O. Box 858, Main Office: New York 4, N. Y.
Plants located at Jacksonville, Fla.; Ft. Pierce, Fla.; Wilmington, N. C.; Charleston, S. C.; Spartanburg, S. C.; Findlay, Ohio. F. Marshall, Treas.; J. M. Blass, B. S. Smith & O. C. Minton, Vice Presidents; G. A. Zeigler, Prod. Mgr.; W. M. Rohrer, Pur. Agent; Frank Wilson, Plant Mgr. Charleston, S. C. 50,000 tons.

A—Planters Fertilizer & Phosphate Company

Box 865. J. Ross Hanahan, Pres.; J. R. Hanahan, Jr., Vice-Pres.; W. O. Hanahan, Vice-Pres. & Sales Mgr.; Walter B. Metts, Treas.; J. S. Hanahan, Sec.; W. A. Speer, Plant Mgr.; W. O. Hanahan, Pur. Agent. 100,000 tons.

AFJ—A. F. Pringle and Co., Inc.

P. O. Box 904, 141 E. Bay St. Ashmead F. Pringle, Jr., Pres.; L. L. Oliveros, Vice-Pres. Treas.

& Pur. Agent; C. L. Paul, Sec. and Prod. Mgr. also Mgr. Pesticide Div.; J. H. Wragge, Supt.; and Plant Mgr. 150,000 tons.

A—F. S. Royster Guano Company

C. F. Burroughs, Pres. F. S. Moore, W. T. Wright, F. S. Royster, Jr., Vice-Presidents; C. F. Burroughs, Jr., Treas.; Sheppard R. Cooke, Sec.; P. L. Steele, Supt.; Sales office, Columbia, S. C., Louis Smith, Mgr. 40,000 tons.

C—Southern Fertilizer & Chemical Company, Exec. Offices, Savannah, Ga.

A. D. Strobar, Pres.; W. Dewey Cooke, Vice-Pres., Sec. & Treas.; W. W. Harley, Vice Pres., Sales Mgr.; E. H. Tilton, Mgr.; W. H. Hackney, Supt.; A. D. Brent, Vice Pres., Prod. Mgr. 15,000 to 20,000 tons.

A—Virginia-Carolina Chemical Corporation

Charleston, S. C. (Factory and Chemical Plants.) General Offices: Richmond, Va.

CHESTER

C—The Southern Cotton Oil Company

Main office, New Orleans, La. W. D. Lindsay, Mgr., Chester, S. C.

CF—Victor Fertilizer Co.

P. O. Box 324. R. A. Oliphant, Mgr. & Pur. Agent; J. W. Bond, Jr., Supt. Lex Wilkes, Office Mgr. 25,000 tons.

CHERAW

C—Burr Gin and Fert. Co.

John Burr, Mgr.

CLIO

C—The Marlboro Fertilizer Company

P. H. Lipscomb, owner; B. H. Martin, Plant Mgr. 10,000 tons.

COLUMBIA

A—The American Agricultural Chemical Company

P. O. Box 69. Sales office. Factory at Cayce. C. I. Mothershead, Mgr.; G. E. Richardson, Supt.

C—Armour Fertilizer Works

P. J. Zeigler, Div. Mgr.; General office: Atlanta, Ga.

D—F. S. Royster Guano Company

C. F. Burroughs, Pres.; W. T. Wright, F. S. Moore, F. S. Royster, Jr., Vice-Presidents; C. F. Burroughs, Jr., Treas.; Sheppard R. Cooke, Sec.; Louis Smith, Mgr. Sales, Columbia office.

D—The Southern Cotton Oil Company

Main office, New Orleans, La.

District office, Columbia, S. C. Manufacture and sales at following points: North Carolina—Charlotte, Davidson, Gibson, Monroe, Shelby, and Wadesboro; South Carolina, Abbeville, Dillon & Darlington, Florence, Greenville, Laurens, Newberry, Honea Path, Orangeburg, Spartanburg, Bennettsville and Sumter. A. D. Kincaid, Mgr., Columbia, S. C.

C—Swift & Company, Plant Food Division

Mgr. A. B. Everett, Box 5285, Five Points Branch, Columbia, S. C.

Virginia-Carolina Chemical Corp.

Columbia, S. C. (Sales Office).

General Offices: Richmond, Va.

DARLINGTON

D—The Southern Cotton Oil Company

Main office: New Orleans, La. Rudolph Robinson, Mgr., Darlington, S. C.

DENMARK

C—Denmark Fertilizer Co.

J. B. Guess, Jr., Pres. Denmark, S. C.; J. W. Williamson, Norway, S. C. Partner; T. Conner Guess, Denmark, S. C. Plant Mgr.; J. B. Guess, Jr., Pur. Agent. 2,000 tons.

DILLON

D—The Southern Cotton Oil Company

Main office: New Orleans, La. Floyd Johnson, Mgr. Dillon, S. C.

FAIRFAX

C—Carolina Mixing Company

A. M. Marshall, owner. 2,000 tons.

FLORENCE

C—The Southern Cotton Oil Company

Main office: New Orleans, La. C. V. Brown, Mgr. Florence, S. C.

FOUNTAIN INN

CF—Rabb and Smith, Inc.

Stuart W. Rabb, Pres. & Treas.; Walter H. Smith, Vice-Pres. Sec. & Prod. Mgr. J. T. Brooks, Jr., Plant Mgr. 1,500 tons.

GAFFNEY

CFJ—Merco Company of Gaffney

L. L. Oliveros, Charleston, S. C., Pres.; Ashmead F. Pringle, Jr., Charleston, S. C., Vice-Pres.; C. Keys Sanders, Gaffney, S. C., Sec. & Treas. 6,000 tons. Insecticides and Feed Mill operated in name of C. Keys Sanders.

E—Application equipment; F—Spreader Service; G—Liquid Fertilizer; H—Apply custom basis; I—Formulate pesticides; J—Buy blended

CJ—Keys Sanders Fertilizer Company

P. O. Box 539. Mrs. Margaret T. Sanders, Pres. & Treas.; Mrs. Eleanor S. Day, Vice Pres. & Sec.; C. F. Blackwell, Plant Mgr. 6,000 tons.

GRAMLING

CDEFGHJ—Gramling Merc Company, Inc.

Henry Gramling, Pres.; A. F. Pringle, Vice Pres.; L. L. Oliveros, Sec.-Treas.; Boyd Harmon, Asst. Treas.; Boyd Harmon, Joe Bell, Plant Mgrs.; Boyd Harmon, Marion Gramling, Prod. Mgrs.; Henry Gramling, Pur. Agent. 6,000 tons.

C—Mills Fert. Co.

M. E. Mills, Owner.

GREELEYVILLE

C—Santee Guano Co.

L. G. Mishoe, owner and operator. 4,000 tons.

GREENVILLE

CDJ—Independent Guano Corporation

213 E. Court St.
S. Avery Smith, Pres. & Treas.;
Ida W. Smith, Sec.; W. J. Long,
Plant Mgr. 2,000 tons.

D—The Southern Cotton Oil Company

Main office: New Orleans, La.
F. Dill, Mgr. Greenville, S. C.

A—Virginia-Carolina Chemical Corp.

Greenville, S. C. (Factory). General offices: Richmond, Va.

GREENWOOD

CF—Piedmont Fertilizer Corp.

P. O. Box 946.
C. Y. Thomason, Pres.; W. N. Henderson, Jr., Plant Mgr. 3,000 tons.

GREER

C—Dobson Guano Company

L. M. Dobson, Mgr. 3,000 tons.

CJ—Greer Guano Company

104 S. Line St.
E. D. Tillotson, A. B. Coggins, Partners, A. B. Coggins, Prod. Mgr.; E. D. Tillotson, Plant Mgr. 3,000 tons.

HARTSVILLE

B—International Minerals and Chemical Corp. Sales Office—Plant

F. W. Atkinson, Area Mgr.; J. C. Calhoun, Dist. Sales Mgr.; I. R. Timmons, Supt.

HEMINGWAY

C—Coastal Fertilizer Co.

R. L. Cox, Mgr. 1,500 tons.

HOLLY HILL

C—Holly Hill Fertilizer Company

S. J. McCoy, Pres.; B. R. Ben-

nett, Vice-Pres.; D. M. Avinger, Sec.-Treas. and Mgr. L. A. Martin, Supt. 15,000 tons.

HONEA PATH

D—The Southern Cotton Oil Company

Sales office. A. H. Jameson, Mgr. Honea Path, S. C.

JEFFERSON

CFG—Miller Fertilizer Co.

J. C. Miller, J. C. Miller, Jr., J. F. Miller, Partners. 5,000 tons.

JOHNSTON

CF—Ridge Fertilizer Company

W. C. Cassels, Pres. & Pur. Agent, D. G. Cassels, Vice-Pres.; Melvin Stokes, Plant Mgr. 15,000 tons.

KERSHAW

C—Kershaw Oil Mill

H. L. McPherson, Pres.; Jno. S. Davidson, Sec.; Fred E. Culvern, Vice Pres.; T. V. Hough, Treas.; Edna S. Stevens, Vice Pres.; H. L. McPherson, Pur. Agent. 6,000 tons.

LANCASTER

B—Catawba Fertilizer Company

W. G. Taylor, Pres.; Edna S. Stevens, Vice-Pres.; R. P. Resch, Treas.; H. R. Rice, Sec.; E. C. Beckham, Plant Mgr.; W. G. Taylor, Prod. Mgr. 25,000 tons.

LATTA

CHI—D. M. Dew and Sons, Inc.

D. M. Dew, Jr., Pres. and Treas.; Leslie Whittington, Plant Mgr. 3,000 tons.

C—Manning & Shine

L. A. Manning, Jr., and D. B. Shine, Partners, L. R. Bethea, Plant Mgr.; L. A. Manning, Jr., Pur. Agent. 3,000 tons.

LAURENS

C—The Southern Cotton Oil Company

Main office: New Orleans, La.
L. H. Taylor, Sr., Mgr. Laurens, S. C.

LEESVILLE

C—Epting Distributing Company

J. H. Epting, owner, J. N. Davis, Supt. 5,000 tons.

LYNCHBURG

C—Lynchburg Fertilizer Co.

C. A. Vincent, President, Howard F. Vincent, Plant Mgr.; Mrs. R. G. Vassy, Mgr.; R. G. Vassy, Mgr. Pesticide Div. 15,000 tons.

MARION

CJ—Marion Cotton Oil Co.

H. L. McPherson, Pres.; Fred E. Culvern, & Edna S. Stevens, Vice-Pres.; Wilson W. Snipes, Mgr.; T. V. Hough, Treas.; John

Davidson, Sec.; Roy Peebles, Plant Mgr. 2,000 tons.

MAYESVILLE

C—M. E. Bland Sr.

M. E. Bland, Owner.

C—Mayesville Mixing Co.

R. L. Mayes, Owner.

MULLINS

CFI—Home Guano Company

Div. of the John Cooper Stores, Inc. John P. Cooper, Pres.; Franklin B. Cooper, Vice Pres.; N. Bryant Cooper, Sec. & Mgr.; Sam Paul Jones, Plant Mgr.; N. Bryant Cooper, Pur. Agent & also Mgr. Pesticide Div. 10,000 tons.

NEWBERRY

D—The Southern Cotton Oil Company

Main office: New Orleans, La.
R. C. Floyd, Mgr., Newberry, S. C.

NORTH

C—J. E. Culler Fertilizer Company

J. E. Culler, owner. 5,000 tons.

ORANGEBURG

D—The Southern Cotton Oil Company

Main office: New Orleans, La.
C. R. Duncan, Mgr., Orangeburg, S. C.

OSWEGO

Woodrow Fertilizer Co.

R. V. Segars, Owner.

PAMLICO

C—Coleman Guano Co.

Buster Coleman, Mgr.; M. C. Coleman, Gen. Mgr.; M. C. Coleman, Mgr. Pesticide Div. 4,000 tons.

C—Pamlico Fertilizer Co., Inc.

J. E. Bostick, Pres.; Robert W. Coleman, Vice-Pres.; G. D. Cox, Sec., Treas. — Plant Mgr. 5,000 to 6,000 tons.

PENDLETON

CFJ—Pendleton Oil Mill, Inc.

E. N. Sittin, Pres. & Treas.; Aug. J. Sittin, Vice-Pres. & Sec.; R. W. Parker, Plant Mgr. 5,000 tons.

RIDGEWAY

CFGHJ—Chas. P. Wray & Company

J. S. Edmunds, owner; J. P. Hillos, Plant Mgr. 3,000 tons.

ROEBUCK

C—Southern Fertilizer & Chemical Company

Exec. Offices, Savannah, Ga. A. D. Strobar, Pres.; W. Dewey

KEY: A—Complete plant; B—Superphosphate, mixed fertilizers; H—Apply custom basis; I—Formulate pesticides; J—Buy blended

Cooke, Vice Pres. and Treas.; Allen D. Brent, Vice Pres. Prod.; W. W. Harley, Vice Pres. Sales; J. P. Huckaby, Plant Mgr. Herbert Respess, Jr., Prod. Mgr. 7,500 to 10,000 tons.

ST. GEORGE

CJ—Dorchester Cotton Oil Company

A. R. Brown, Pres.; W. T. Brown, Vice-Pres. and Mgr. 4,000 tons.

ST. MATTHEWS

CFGHJ—Banks Fertilizer Company

Partners: D. H. Banks, Sr., R. W. Banks, J. A. Banks & D. H. Banks, Jr.; D. H. Banks, Plant Mgr. and Pur. Agent. 3,000 tons.

C—Eastover Fertilizer Company

A. S. Smoke, Pres. and Sec.; W. G. Smoke, Treas. 3,500 tons. Dry Mixing Plant.

SALLEY

CJ—Salley Gin & Fert. Co.

L. A. McMillian, —H. N. Salley Plant Mgr.; L. A. McMillian, Pur. Agent. 1,500 tons.

SENECA

C—W. P. Nimmons & Company

2,000 to 3,000 tons.

SPARTANBURG

C—The American Agricultural Chemical Company

P. O. Box 890. Sales Office and Factory. Jack Rogers, Mgr.; J. E. Martin, Supt.

C—Caldwell Company

Ralph M. Caldwell, Pres., Treas. & Gen. Mgr.; James B. Caldwell, Sec.; F. L. Lassiter, Plant Sup. 4,000 tons.

A—International Minerals and Chemical Corp.

Plant A. L. Foster, Supt.

CEFGJ—Naco Fertilizer Co.

P. O. Box 1123. Main Office: New York, N. Y.

Plants located at Jacksonville, Fla.; Ft. Pierce, Fla.; Wilmington, N. C.; Charleston, S. C.; Spartanburg, S. C.; Findlay, Ohio; J. M. Bass, O. C. Minton, Vice Presidents; F. Marshall, Treas.; Edwin F. Bell, Plant Mgr.; G. A. Zeigler, Prod. Mgr.; W. M. Rohrer, Pur. Agent. 15,000 tons.

C—F. S. Royster Guano Company

C. F. Burroughs, Pres.; W. T. Wright, F. S. Moore, F. S. Royster, Jr., Vice-Presidents; C. F. Burroughs, Jr., Treas.; Shepard R. Cooke, Sec.; E. W. Wood, Supt. Sales Office. Columbia, S. C.; Louis Smith, Mgr. 20,000 tons.

C—The Southern Cotton Oil Company

Main office: New Orleans, La. H. B. Lipscomb, Mgr., Spartanburg, S. C.

SUMTER

CD—Farmers Fertilizer Company

J. P. Booth, Jr., Pres.; S. F. Stroudemire, Vice-Pres., Sec. & Treas.; J. F. McLeod, Plant Mgr. 4,000 tons.

D—The Southern Cotton Oil Company

Main office: New Orleans, La. L. E. Graham, Mgr. Sumter, S. C.

C—Sumter Fertilizer Manufacturing Company, Inc.

J. A. McKnight, Pres.; Sara Brogdon, Vice-Pres. & Asst. Sec.; J. LeRoy Nicholas, Mgr. & Treas.; D. G. F. Bultman, Sec. Ashley L. Brogdon, Supt. 10,000 tons.

TIMMONSVILLE

C—Anderson Guano Company

Box 393. Mrs. Mary Q. Hawkins, Owner; F. E. Sansbury, Plant Mgr. 5,000 tons.

UNION

BHJ—Union Oil Mills

N. R. Fowler, Pres. & Pur. Agent; A. G. Kennedy, Vice-Pres.; Hattie Kennedy Fowler, Treas. and Sec.; M. Curtis Dunbar, Plant Mgr. 3,500 tons a season. Dry mixers.

WAGENER

C—J. A. Tyler & Sons

J. E. Tyler, Pres.; John A. Tyler, Jr., Sec. & Treas.; A. E. McCord, Supt. 2,500 tons.

WALHALLA

CDJ—J. E. Bauknight, Jr.

Box 145. J. E. Bauknight, Jr., Owner; Robert Dilworth, Plant Mgr. 5,000 tons.

WESTMINSTER

CFJ—Westminster Gin & Fertilizer Co.

J. E. Marett, Pres.; E. C. Marett, Mgr., Sec.-Treas. 2,000 tons.

WILLISTON

CD—Smith Fertilizer Co.

Winchester Smith, Pres. and Treas.; Norman M. Smith, II, Vice-Pres.; Mrs. Carrie M. Bell, Norman M. Smith, II, Plant Mgr. Sec. 2,000 tons.

C—Williston Fertilizer Works

Q. A. Kennedy, Jr., Sole owner. 2,000 tons.

SOUTH DAKOTA

RAPID CITY

CDGJ—Tri-State Milling Co.

Chet Smith, Mgr. Agricultural Chemicals Division.

SIOUX FALLS

C—Summers Fertilizer Co., Inc. of

Baltimore, Md.

W. A. Stolt, Gen. Mgr. 25,000 tons of mixed fertilizer.

YANKTON

Gurney Seed & Nursery Company

TENNESSEE

B—A. D. Adair and McCarty Bros., Inc.

A. D. Adair, Sr., Pres.; A. D. Adair, Jr., Vice-Pres. & Sec-Treas.; Geo. Masters, Supt. 20,000 tons.

CLARKSVILLE

BCFG—Tennessee Plant Food Co.

Division of Soil Builders, Inc. Red River St., P. O. Box 61. B. C. Miller, Jr., Vice Pres.; H. W. Short, Gen. Mgr.; Robert L. Weakley, Plant Mgr.; H. W. Short, Prod. Mgr.; B. C. Milner, Jr. & H. W. Short, Pur. Agent. 20,000 to 30,000 tons.

COLUMBIA

Armour Fertilizer Works

Phosphate Rock Mines. W. B. King, Supt. General Office Atlanta, Ga.

A—International Minerals and Chemical Corp.

Rock Phosphate Mines. R. Louis Ware, Pres.; G. W. Moyers, Vice-Pres.; F. A. Koechlein, Gen. Mgr.; C. L. Richards, Plant Mgr.; S. T. Keel, Sales Mgr.

C—Ruhm Phosphate & Chemical Co.

P. O. Box 361. Oliver M. Babcock, Jr., Pres. and Gen. Mgr.; Jere A. Dorminy, Asst. to the Gen. Mgr.; Ruby Owen, Asst. Treas. & Office Mgr.; W. B. Huff, Works Mgr. 200,000 tons.

CG—Shea Chemical Corporation

Main Office Baltimore, Md. Plants: Columbia, Tenn.; Adams, Mass. 100,000 tons.

COVINGTON

CF—Farm Services

920 S. Main St. Partnership of W. G. McGowan, Sr., W. G. McGowan, Jr., Mrs. V. A. Roy, Wayne G. McGowan, Jr., Prod. Mgr.; Velton M. Hazlewood, Plant Mgr. 5,000 tons.

DAYTON

BCF—Dayton Coal & Iron Corporation

L. A. Morgan, Pres.; J. Wesley Gardner, Vice Pres. & Treas.; Mildred Lydecker, Sec.; Luke Lee, Jr., Plant Mgr. 40,000 tons.

DECATUR

Meigs Farmers Cooperative

J. Howard Hornsby, Pres.; G. S. Denton, Jr., Vice-Pres.; Edd Norman, Sec. & Treas. Roy C. Ashley, Plant Mgr.

GRAY STATION

B—A. D. Adair and McCarty Bros., Inc.

A. D. Adair, Sr., Pres.; A. D. Adair, Jr., Vice-Pres. & Sec. Treas.; George H. Crossley, Supt. 10,000 tons.

GREENEVILLE

International Minerals & Chemical Corporation

Sales Office and Plant.
J. H. Hyder, Dist. Sales Mgr.;
J. C. Barry, Supt.

HALLS

C—Apco Fertilizer Co.

Box 146.
James W. Porter, Pres.; Margie R. Hopkins, Sec. & Treas.; F. W. Finley, Plant Mgr.; Jas. W. Porter, Pur. Agent. 20,000 tons.

HUMBOLDT

C—Federal Chemical Company

John V. Collis, Pres.; W. Q. Harned, Treas.; Geo. W. Shields, Vice-President and Comptroller; John Langford, Supt.

HUNTINGDON

Carroll County Cooperative Supplies Assoc.

C. B. King, Pres.; A. T. Abernathy, Vice-Pres.; Wm. Pinkley, Sec. & Treas.; Earl Newsome, Plant Mgr. 150 tons.

JACKSON

GH—Liquid Fert. & Chem. Co., Inc.

535 S. Royal.
E. A. Sadler, Pres. & Plant Mgr.;
J. D. Wooten, Vice Pres.; John C. Hogan, Sec. & Treas.; E. A. Sadler, Plant Mgr. 1,000 tons.

KNOXVILLE

B—Knoxville Fertilizer Company

Box 119.
J. W. Dean, Pres.; N. C. Myers, Jr., Vice-Pres.; J. C. Dean, Vice-Pres.; A. C. Myers, Treas.; Bennett E. Brown, Sec.; N. H. Hartman, Plant Mgr. Capacity 100,000 tons. Plants—Knoxville, Nashville, Tenn. & London, Ky. 190,000 tons.

LA VERNE

B—Tennessee Farmers Cooperative

Paul Quandt, Pres.; Walter Webb, Vice-Pres.; Frank B. Watson, Sec.-Treas.; J. B. Jones, Gen.

Mgr.; Milton Edwards, Prod. Mgr.; Franklin Nix, Pur. Agent; W. H. Mitchell, Plant Mgr.

MEMPHIS

Humphreys-Godwin Company

H. B. McCory, Pres.; G. G. Richardson, Vice Pres.; H. B. Cooke, Jr., Treas. & Sec. 100,000 tons.

D—Southern Cotton Oil Company

W. K. Martak, Mgr. Memphis Tenn.

A—Virginia-Carolina Chemical Corp.

Memphis, Tenn. (Sales office and Factory). General offices: Richmond, Va.

MT. PLEASANT

C—Ruhm Phos. & Chem. Company

813 S. Garden St. Oliver M. Babcock, Jr., Pres. & Gen. Mgr.; Harry S. Demaree, Vice-Pres.; R. Owen, Asst. Treas.; Jere A. Dorminy, Asst. to the Pres.; Wm. Bruce Huff, Plant Mgr. 100,000 net tons approx.

B—Virginia-Carolina Chemical Corporation

Mt. Pleasant, Tenn. (Factory and Phos. Rock Mines). General Offices: Richmond, Va.

NASHVILLE

A—Armour Fertilizer Works

F. H. Conley, Div. Mgr.; General office, Atlanta, Ga.

B—The Davison Chemical Corporation

P. O. Box 1009.
C. F. Hockley, Pres.; W. N. Watmough, Vice Pres.; M. C. Roop, Sec.; J. Earley Hardesty, Treas.; J. Stanley Yake, Prod. Mgr.; Jno. P. Foley, Pur. Agent. 100,000 tons. Geo. Klein, Plant Mgr.

B—Federal Chemical Co., Inc.

J. V. Collis, Pres.; J. D. Stewart, Jr.; G. W. Shields, Vice-Pres.; John Ferguson, Supt.

Robin Jones Phosphate Co.

Partners, B. W. Brown, Doswell Brown, Jr., Malvern Brown. Distribute Ground Rock Phosphate from Tenn. & Fla. Mills, and Colloidal Phos. from Fla.

B—Knoxville Fertilizer Company

James W. Dean, Pres.; (Knoxville) N. C. Myers, Jr., Vice-Pres. & Mgr.; B. H. Ottinger, Plant Mgr.; M. T. Myers, Asst. Mgr.; Edward McDermott, Supt. 40,000 tons.

BJ—Tennessee Farmers Cooperative

Ninth Ave. S. at Lea.
Paul Quandt, Pres.; Walter Webb, Vice Pres.; Frank B. Watson, Sec.-Treas.; J. B. Jones,

Gen. Mgr.; W. H. Mitchell, (La Vergne Plant) E. C. Wilson, (Tenco Plant) Milton Edwards, Prod. Mgr.; Franklin Nix, Pur. Agent. 30,000 tons each plant. La Vergne & Tenco, total 60,000 tons.

TENCO

B—Tennessee Farmers Cooperative

UNION CITY

GHI—T & K Fertilizer Company

L. E. Maloney, Pres.; L. E. Maloney, Treas.; Tom Elam, Sec.; L. E. Maloney, Plant Mgr. 800 tons.

West Tenn. Tankage Co.

J. R. Meek, Jr., Pres.; Gordon Cheatham, Vice-Pres.; Mrs. S. R. Meek, Jr., Sec. & Treas. 260,000 lbs tankage.

WALES

B—International Minerals & Chemical Corporation

Plant, C. A. White, Supt.

TEXAS

BONHAM

BJI—Hi-Yield Fertilizer Co.

P. O. Box 4.
H. Dean Smith, Pres.; Pat Gowan, Plant Supt. 30,000 tons.

BRYAN

C—Bryan Cotton Oil and Fertilizer Co.

J. W. Howell, Jr., Pres.; A. M. Stewart, Sec-Treas.; J. F. Slowey, Plant Supt. 2,000 tons.

Gulf Liquid Fert. Co.

Sam Ferguson, Pres.; E. R. Baker, Vice Pres.; H. H. Baker, Treas.; C. B. Beard, Sec.; Sam Ferguson, Production Manager. We market Anhydrous Ammonia and Anhydrous Ammonia Equipment both wholesale & retail.

CLINT

CFGHI—Southwest Fertilizer & Chemical Co.

100 Orange Street, P. O. Box 33.
R. E. Kerley, Plant Supt.; D. F. Kerley, Prod. Mgr.; B. J. Kerley, Jr., Pur. Agent; R. V. Kerley, Mgr. Pesticide Div. 20,000 tons mixing; 24,000 tons acidulating at El Paso.

COMANCHE

CF—Central Texas Fertilizer Co.

P. O. Box 761.
F. W. Prather, Pres.; Pat Cagle, Vice-Pres.; W. M. Durham, Jr., Sec.-Treas.; Russell Anderson, Plant Mgr. 5,000-10,000 tons.

KEY: A—Complete plant; B—Superphosphate, mixed fertilizers; C—Mixed fertilizer only; D—Sell goods manufactured for them;

DALLAS

B—**Armour Fertilizer Works**
H. G. Wells, Div. Mgr. General Offices, Atlanta, Ga.

EL PASO

AB—**Hed Brothers Corp.**
1705 Texas St.
E. C. Hed, Pres.; Joseph Hed, Sec. & Treas.; Tirso Guzman, Jr., Warehouse Foreman and Plant Supt. 500 to 1,000 tons.

BFGHI—**Southwest Fertilizer & Chemical Co.**
5030 Paisano Dr.
B. J. Kerley, Jr., Pres.; D. F. Kerley, Plant Mgr.; R. J. Kerley, Jr., Mgr. Pesticide Div. 25,000.

FT. WORTH

C—**Boyer Fertilizer Corporation**
R. M. Boyer, Pres.; J. C. Boyer, Vice-Pres.; A. V. Doherty, Sec. & Treas.; J. Fred Pettigrew, Plant Mgr.; J. Joe Wilson, Prod. Mgr.; H. M. Shultz, Pur. Agent. 21,000 tons.

B—**International Minerals & Chemical Corp.**
Plant & Sales Office. R. I. Gilliland, Dist. Sales Mgr.; W. E. Saunderson, Supt.

GILMER

C—**Gilmer Cotton Oil & Fertilizer Company**
Box 276.
C. D. Shallenberger, Shreveport, La., Pres.; E. L. Patterson, Gilmer, Texas. Sec. & Pur. Agent. 15,000 tons.

GORMAN

CH—**Gorman Peanut Co.**
P. O. Box 698.
M. E. Shell, Pres.; Martha Shell, and Maurine Shell, Vice-Presidents.; W. T. Shell, Sec. & Treas. L. B. Hirst, Plant Mgr.; M. E. Shell, Pur. Agent. 10,000 tons.

HARLINGEN

BF—**Kipfer Chemical Co.**
1 Mile West State Highway, Box 315. A. E. Kipfer and C. G. Klopfenstein, partners; E. J. Hobbs, Plant Supt.; P. L. Stolfo, Prod. Mgr.; A. E. Kipfer, Pur. Agent. 20,000 tons.

HENDERSON

CD—**Oil Mill and Fertilizer Works**
Box 130. J. R. Alford, Vice-Pres.; R. Kanguaga, Sec.-Treas.; Wm. H. Taylor, Plant Mgr.; J. C. Price, Prod. Mgr. 10,000 tons.

HOUSTON

A—**Armour Fertilizer Works**
D. A. Miller, Div. Mgr. General Office, Atlanta, Ga.
C—**The Best Fertilizers Co. of Texas**
8420 Manchester Ave.
Lowell W. Berry, Pres.; W. L. Dixon, Jr., & Paul H. Durkel, Vice Pres.; Stanley H. State, Sec. & Treas.; Russell C. Dellingar, Jr., Plant Mgr.; Raymond Kapalske, Prod. Mgr.; Kenneth Winborn, Pur. Agent.

C—**Campbell Fertilizer Company**
102 Japhet St.
B. L. Henderson, Pres.; F. Campbell, Vice-Pres.; G. H. Seibel, Treas. & Sec. 12,000 tons.

Duval Sulphur & Potash Co.
General Offices, 17th Floor Melville Esperson Bldg. Geo. F. Zoffman, Pres.; Warren J. Dale, Vice Pres.; R. A. Shepherd, Vice-Pres.; Eugene German, Vice Pres. & Treas.; V. J. Thornhill, Sec. & Asst. Treas.; W. B. Wilkerson, Asst. Sec. & Asst. Treas.; Ira M. Avent, Asst. Treas. Sulphur Mine Operations, Orchard, Texas; Potash Mine & Refinery, Carlsbad, N. M.

C—**Fidelity Chemical Corp.**
P. O. Box 1189.
A. Q. Petersen, Pres.; Jas. D. Dawson, Jr., Vice-Pres.; C. E. Hollywood, Treas.; M. D. Boggs, Sec.; T. D. Cone, Supt. 20,000 tons.

AEG—**Mathieson Chemical Corporation**
Mathieson Agricultural Chemicals Division
Sales Office: Gulf Building. H. E. McClean, Div. Sales Mgr. Fertilizer Plant: Pasadena. J. R. Beatty, Operations Mgr.

San Jacinto Chemical Corporation
E. M. Fleischmann, Pres.; R. F. Hopkins, Vice Pres.; A. J. Gardner, Sec. & Treas.; D. A. White, Plant Mgr.; C. Sizemore, Pur. Agent. 25,000 Anhydrous Ammonia.

ABCD—**Smith-Douglass Co., Inc.**
Main Office P. O. Box 419, Norfolk, Va. R. B. Douglass, Pres. & Treas.; W. B. Copeland, Vice Pres.; J. A. Monroe, Vice Pres.; J. H. Culpepper, Vice Pres.; W. R. Ashburn, Vice Pres.; W. F. Powers, Sec.; S. L. Lott, Asst. Treas.; L. H. Jackson, Asst. Sec., all of Norfolk, Va.

C—**Swift & Company**
Plant Food Division
A. Cook, Mgr. Sales Office, Harvey, Louisiana.

JACKSONVILLE
CF—**Jacksonville Fertilizer Co.**
Box 1225. J. T. Carlisle, Pres.; H. H. Bomar, Vice Pres.; K. S. Carlisle, Sec.-Treas.; R. R. Dun-

lap, Plant Mgr.; J. T. Carlisle, Pur. Agent. 15,000 tons.

LA FERIA

CG—**Texas Liquid Fertilizer Co., Inc.**
H. A. Shannon, Pres.; Joseph J. Crosby, Vice-Pres.; Chas. E. Shannon, Sec. & Treas. J. B. Ashworth, Plant Mgr. 9,300 Liquid Fert.

LAS FRESNOS

CE—**Port Fertilizer & Chemical Company**
Owner: Cleve H. Tandy, Pres.; Cliff Neff, Plant Mgr.; John S. Chase, Prod. Mgr.

LUBBOCK

CFGI—**Wood Chemical Co.**
P. O. Box 1295.
W. R. Wood, Pres.; J. Allen White, Vice-Pres.; Carl H. Casev, Sec.-Treas.; Carl H. Casev, Supt.; D. R. McKinney, Prod. Mgr.; W. R. Wood, Pur. Agent; J. Allen White, Mgr. Pesticide Div. 10,000 tons.

MCALEN

CG—**Southwest Chemical Co., Inc.**
P. O. Box 948.
Don E. Mahler, Pres.; Guy G. Veal, Supt.; Don E. Mahler, Pur. Agent. 25,000 tons.

MARSHALL

CG—**Marshall Cotton Oil Company**
L. P. Martin, Pres.; George Prendergast, Vice-Pres.; Thelma M. Boyett, Sec.-Treas. W. C. Hayes, Plant Mgr. 5,000 tons.

MOUNT PLEASANT

CDF—**Hi-Yield Plant Food Co.**
Box 491.
H. Dean Smith, Pres.; Walter M. Young, Mgr.; Howard Joe Miller, Supt.; Harold Baker, Mgr. Pesticide Div. 30,000 tons.

MULESHOE

CGHI—**Western Fertilizer Co.**
Robert King, Pres.; Lloyd Grosdin, Vice-Pres.; Harold King, Sec. & Treas.; Paul Craig, Plant Mgr.; John McFarland, Prod. Mgr. 1,000 tons.

NACOGDOCHES

BF—**Texas Farm Products Company**
P. O. Box 31.
M. S. Wright, Pres.; Steele Wright, Vice-Pres.; G. L. Weaver, Sec. and Treas.; Joe Wright, Supt.; Tom Wright, Prod. Mgr. 25,000 tons.

ORCHARD

Duval Sulphur & Potash Co.
P. O. Box 1032, Rosenberg, Texas.

Resident Mgr., J. O. Tyree; Asst. Mine Mgr., X. T. Stoddard; Pur. Agent, R. C. Mollison, approx. 180,000 tons per year crude sulphur.

PASADENA (Houston)

A—Mathieson Chemical Corporation
Mathieson Agricultural Chemicals Division

J. R. Beatty, Operations Mgr.; M. E. Miller, Asst. Operations Mgr.; Executive Offices: Little Rock, Ark.

PECOS

CDEHI—Southwest Fertilizer & Chemical Company

P. O. Box 107
B. J. Kerley, Jr., Pres. & Prod. Mgr.; R. V. Kerley, Vice-Pres.; D. F. Kerley, Treas. & Insecticide Plant Mgr.; R. E. Kerley, Sec. 10,000 tons.

PLAINVIEW

CHI—Rowland & Gordon Company
Box 170, Virgil Rowland, Pres.; Joe Montgomery, Vice - Pres.; Virgil Rowland, Pur. Agent & Mgr. Pesticide Div. 5,000 tons.

RIO HONDO

DFIJ—Kipfer Chemical Co.
P. O. Box 770, A. E. Kipfer, Owner, 20,000 tons.

SAN ANTONIO

C—Agri-Chem. of Texas
T. C. Brayshaw, Plant Mgr.

CD—Bactex Co., Inc.
P. O. Box 4065, Station A.
Robert M. Tobias, Pres.; Geo. J. Pettie, Vice Pres. & Supt. 3,000 tons annually.

SULPHUR SPRINGS

BEFI—Red Star Fertilizer Company
P. O. Box 486.
D. H. McKinney, Gen. Mgr.; W. S. Tyler, Pur. Agent.; Ewell A. Fox, Office Mgr.; Collis Gowen, Plant Mgr. & Mgr. Pesticide Div.; Clyde Couch, Prod. Mgr. 50,000 tons.

TEXARKANA

CF—Farmers Fertilizer Co.
Box 944, H. J. Trammell, Pres.; C. D. Shallenberger, Sec. & Treas.; F. M. Teague, Supt. 15,000 tons.

TYLER

EFGHJ—Farm Chemical Co.
Box 655, R. H. Jennings, Owner, 500 tons.

CD—East Texas Products Co.
A Division of Swift and Co
John Holmes, Pres.; C. T. Prindeville, Vice Pres.; A. L. Bruckner, Treas.; W. H. Souter, Sec.; A. F. Miller, Gen. Mgr.

Plant Prod. Div. W. P. Bryans, Supt.; C. F. Connor, Pur. Agent.

CD—Tyler Fertilizer Company

420 S. Oakland,
H. W. Lust, Owner, K. M. Lust,
Supt. 12,000 tons.

WACO

EGHJ—Midtex Liquid Fert. Co.

T. W. Rogers, Pres.; J. L. Brooks, Vice Pres.; R. H. Claypool, Jr. Sec. Treas.; E. N. Stiver, PhD. Agronomist; J. L. Brooks, Mgr. Anhydrous Ammonia.

E—Tobacco By-Products and Chemical Corporation

(Factory, General Office, Richmond, Va.)

UTAH

JOSEPH (Sevier County)

C—Brice Presby & Son.
Partnership.

MIDVALE

BFJ—Mineral Fertilizer Co.

P. O. Box 206, 150 Sugar St.
Frank H. Gunnell, Pres. & Pur. Agent; Clyde C. Edmonds, Vice Pres.; Lincoln F. Hanks, Sec. and Treas.; Frank H. Gunnell, Plant Mgr., Mgr. Pesticide Div. R. B. Swear, Prod. Mgr.; C. M. Greenland, Pur. Agent. 10,000 tons.

PLEASANT GROVE

CFGJ—Geneva Food and Chemical Co.

P. O. Box 415.
Dr. H. C. Millar, Pres.; Rulon W. Williams, Vice Pres.; Elsie Williams, Sec. & Treas.; H. C. Miller, Prod. & Pur. Agent. and Mgr. Pesticide Div. 8,000 tons.

SALT LAKE CITY

CE—Leon Brown Floral Co.
520 Bothwell St., P. O. Box 507
Leon Brown, owner; Victor Blair, Plant Mgr. 500 tons.

C—Kelly-Western Seed Division

Utah Cooperative Association (a Farmers Union affiliate)
W. B. Robbins, Gen. Mgr.; Henry W. Hansen, Mgr. Seed & Fert. Div.; Don Powell, Plant Mgr.; Henry Smith, Pur. Agent.

CEGI—Wasatch Chemical Co.

N. D. Thatcher, Jr., Pres. & Treas.; N. D. Thatcher, Sr., Vice Pres.; L. W. Thatcher, Sec.; W. L. Thatcher, Prod. Mgr.; Mrs. Fleda Hafen, Pur. Agent. 25,000 tons.

VERMONT

BURLINGTON

C—Burlington Rendering Company

Branch of Consolidated Rendering Co., Boston, Mass. Albert South Plant Mgr. 4-500 tons.

VIRGINIA

ALEXANDRIA

A—The American Agricultural Chemical Company

411 No. Lee St.
Sales Office and Factory.
J. H. Brown, Mgr.; A. W. Powell, Jr., Supt.

Herbert Bryant, Inc.

A. H. Bryant, Pres.; J. C. Herbert Bryant, Vice-President and Treas.; J. T. Bowling, Sec. C. L. Nalls, Plant Mgr. 25,000 Mixed Fertilizer.

BLACKSTONE

CF—Blackstone Guano Co., Inc.

Box 388, W. Fletcher Bergman, Pres. & Treas.; W. C. Rives, Jr., Vice Pres.; G. G. Osborne, Sec.; S. S. Harris, Plant Mgr.; W. F. Bergman, Pur. Agent. 15,000 tons.

BRISTOL

CE—Southwest Virginia Cooperative, Inc.

Office Bristol, Va. — Plant Bristol, Va. Pres., R. H. Snodgrass, Glade Spring, Va., Vice Pres.; S. J. Shelburne, Pennington Gap, Va.; Mgr., Emmett Buckles, Lebanon, Va.; Sec. & Treas., Orville B. Helton, Bristol, Va.; Plant Mgr., M. H. Overstreet, Bristol, Va. 25,000 tons.

BUELL (NORFOLK)

CE—F. S. Royster Guano Co.
J. F. Walker, Supt. Money Point, Buell, Va.; K. C. Robinson, Mgr., Norfolk Sales Office. 40,000 tons.

CHARLOTTESVILLE

Elliott Ice Company

CHERITON

CF—G. L. Webster Company

Guy L. Webster, Pres.; T. Wallace Jones, Vice Pres.; C. Hugh Savage, Sec.-Treas. 5,000 tons.

CHILHOWIE

CEI—The Vance Company, Inc.

Q. A. Eller, Vice-Pres. in charge of Fertz, Mfg.; J. M. Duncan, Treas.; W. N. Neff, Gen'l. Mgr. Robert Ferguson, Plant Mgr.; Wm. C. Kelly, Mgr. Pesticide Div. 10,000 tons.

CRIMORA

CEH—Central Chemical Corp.

John Babage, Mgr. Plants: Harrisonburg, Va., Hagerstown, Md.

KEY: A—Complete plant; B—Superphosphate, mixed fertilizers; C—Mixed fertilizer only; D—Sell goods manufactured for them;

CULPEPER

CF—Cooperative Fertilizer Service of Richmond, Inc.

P. O. Box 749. W. T. Steele, Jr., Pres.; A. Preston Sale, Jr., Exec. Vice Pres.; K. R. Eckles, Treas.; F. M. Armbrecht, Comptroller; Jas. R. Ayers, Jr., Sec.; R. H. Carwile, Plant Mgr. 10,000 tons mixed fertilizer.

DANVILLE

ABCDF—Smith-Douglass Co., Inc.

P. O. Box 103. R. B. Douglass, Pres. & Treas.; J. A. Monroe, J. H. Culpepper, W. R. Ashburn, & W. B. Copeland, Vice Presidents; P. J. Scarce, Branch Mgr.; W. F. Powers, Sec.; S. L. Lott, Asst. Treas.; J. H. Jackson, Asst. Sec. 25,000 tons.

ELLERSON

CF—Alliance Fertilizer Corp.

B. C. Garrett, Pres.; R. T. Avery, Vice-Pres.; L. E. Young, Treas.; B. H. Garrett, Sec.; S. L. Carnal, Plant Supt. Ellerson, 7,000—Milford 5,000. Plant located Milford, Va. & Ellerson, Va. Charles S. Brooks, Mgr. Milford.

C—Bradley & Boswell

Frank B. Bradley, Sr., Pres. & Treas.; Frank B. Bradley, Jr., Sec.; F. B. Bradley, Sr., Pur. Agent; H. W. Bradley, Plant Mgr.; C. L. Dunn, Supt. 10,000 tons.

HARRISONBURG

CDFI—The Central Chemical Corp.

P. O. Box #7. F. M. Thomas, Pres.; M. C. Morton, Vice-Pres.; F. S. Schwartz, Treas.; John Babage, Plant Mgr. and Mgr. Pesticide Div.; D. Fred Neikirk, Pur. Agent. 15,000 tons. Va. Plant.

KENBRIDGE

CF—Farmers' Cooperative Fertilizer Purchasers, Inc.

P. O. Box 366. C. H. Stevens, Pres.; E. S. Roby, Jr., Vice Pres.; W. S. Manson, Jr., Sec. & Treas.; T. R. Cocks, Prod. Mgr. 18,000 tons.

LYNCHBURG

C—F. S. Royster Guano Company

C. F. Burroughs, Pres.; F. S. Moore, W. T. Wright, F. S. Royster, Jr., Vice-Presidents; C. F. Burroughs, Jr., Treas.; Sheppard R. Cooke, Sec. W. C. Wheatley, Mgr. Sales Lynchburg office; J. L. Adamee, Supt. 25,000 tons.

A—Virginia-Carolina Chemical Corp.

Lynchburg, Va. (Factory). General Offices, Richmond, Va.

MILFORD

CJ—Alliance Fertilizer Corporation

Local Manager Charles S. Brooks. 5,000 tons.

MOUNT JACKSON

BFJ—Valley Fertilizer and Chemical Co., Inc.

George B. Holtzman, Pres. & Plant Mgr.; L. D. Arnold, Sec. & Treas. 6,000 tons.

NORFOLK

C—The American Agricultural Chemical Company

P. O. Box 4568, Berkley Station. Sales Office and Factory. H. O. Beatty, Mgr.; P. L. Ayscue, Supt.

C—Armour Fertilizer Works

903 Bank of Commerce Bldg. F. G. Carlisle, Div. Mgr. General Office, Atlanta, Ga.

C—Baugh & Sons Company—Norfolk

B. H. Brewster, Chairman of Board; F. White, Vice Chairman of Board; F. J. Prosser, Pres.; H. Williams, Vice-Pres. & Treas.; P. W. Sinwell, Vice-Pres.; L. A. Krebs, Vice-Pres.; Dorothy Q. Harper, Sec.; B. H. Brewster, Asst. Sec.; B. S. Hoffman, Asst. Sec.; A. C. Hill, Plant Mgr.; B. W. Johnson, Mgr. 10,000 tons.

C—Cooperative Fertilizer Service of Norfolk, Inc.

P. O. Box 777. W. T. Steele, Jr., Pres.; M. G. Mann, Vice-Pres.; A. Preston Sale, Jr., Exec. Vice-Pres.; L. A. Daugherty, Jr., Comptroller; K. R. Eckles, Treas.; Jas. R. Ayers, Jr., Sec.; Miss Louise Ruley, Asst. Sec.; M. K. Hassell, Mgr. 100,000 tons mixed fertilizer.

B—Farmers Guano Company branch of Farmers Cotton Oil Company, Wilson, N. C.

P. O. Box 4526, Berkley Sta. T. F. Bridgers, Pres.; C. P. Harris, Jr., Vice-Pres.; H. M. Rogers, Treas.; Jno. L. Day, Sec.; Ben Ottinger, Norfolk, Mgr. 50,000 tons.

C—Nichols Fert. Corp.

P. O. Box 4535, Bkly. Station. W. L. Nichols, Pres.; W. R. Jordan, Vice-Pres.; W. L. Nichols, Treas.; J. A. White, Sec.; E. D. Culpeper Plant Mgr. 20,000 tons.

C—Chas. W. Priddy & Company, Inc.

Sydnor Y. Priddy, Pres.; A. L. Ridgewell-J. S. Hand, Vice-Pres.; Chas. O. Lawrence, Sr., Sec-Treas.; T. A. Branche, Supt.; Charles Lawrence, Jr. Prod. Mgr. 50,000 tons.

C—Reliance Fertilizer & Lime Corporation

J. J. Joyce, Pres. & Treas.; C. G. Lawrence, R. S. Hill, Vice-Presidents; V. C. Hare, Sec.; L. W. Wilson, Supt. 20,000 tons Fertilizer, 15,000 tons Burned Shell Lime.

A—Robertson Chemical Corp.

P. O. Box 687. Norfolk, Va. C. B. Robertson, President; J. E. Ames, Jr., Vice-Pres.; R. S. Eggleston, Treasurer; J. L. Elev, Jr., Asst. Treas.; J. Morton Eggleston, Secretary; C. W. Best, Production Manager; S. H. Hall, Supt. 75,000 tons. Complete plant manufacturing Sulphuric Acid and Superphosphate, and mixed fertilizers.

A—F. S. Royster Guano Company

P. O. Box 1940. General Office. C. F. Burroughs, Pres.; F. S. Moore, W. T. Wright, F. S. Royster, Jr., Vice-Presidents; Chas. F. Burroughs, Jr., Treas.; Sheppard R. Cooke, Sec. Plants also at Baltimore, Md.; Lyons, N. Y.; Tarboro, Wilmington, Charlotte and Washington, N. C.; Lynchburg, Va.; Charleston and Spartanburg, S. C.; Atlanta and Macon, Ga.; Montgomery and Bessemer City, Ala.; Jackson, Miss.; Toledo, Ohio; Indianapolis, Ind.; Madison, Wisc.

ABCD—Smith-Douglass Co., Inc.

P. O. Box 419. R. B. Douglass, Pres. & Treas.; W. B. Copeland, J. A. Monroe, J. H. Culpepper, & W. R. Ashburn, Vice Presidents; W. F. Powers, Sec.; S. L. Lott, Asst. Treas.; L. H. Jackson, Asst. Sec., All of Norfolk, Va. Location of Plants: Norfolk, Va.; Danville, Va.; Wilmington, N. C.; Kinston, N. C.; Streator, Ill.; Granite City, Ill.; Albert Lea, Minn.; Plant City, Fla.; Houston, Texas; Selbyville, Del.

Smith-Rowland Company

P. O. Box 1219. R. B. Douglass, Pres.; J. A. Monroe, Vice-Pres.; W. F. Powers, Sec.; W. W. Johnson, Prod. & Sales Mgr.; K. L. Rue, Pur. Agent. 20,000 tons.

A—Swift & Company Plant Food Division

W. J. Richardson, Mgr. 627 Wainright Bidg., Norfolk 1, Virginia.

Virginia-Carolina Chemical Corp.

Norfolk, Va. (Sales Office). General Offices: Richmond, Va.

BFGH—Weaver Fertilizer Company, Inc.

807 Bank of Commerce Bldg. A. W. Weaver, Pres.; C. W. Bradshaw, Vice-Pres.; B. P. Eg-

gleston, Jr., Sec.-Treas. E. E. Towe, Plant Mgr.; A. W. Weaver, Pur. Agent 60,000 tons.

The Weaver Tankage Corporation
807 Bank of Commerce Bldg.
A. W. Weaver, Pres.; C. W. Bradshaw, Vice-Pres.; B. P. Eggleston, Jr., Sec. & Treas.; S. P. Holding, Supt.; A. W. Weaver, Pur. Agent. 18,000 tons Nitrogenous Tankage.

PETERSBURG

C—Virginia-Carolina Chemical Corp.
Petersburg, Va. (Sales Warehouse) General Offices: Richmond, Va.

PORTSMOUTH

C—Baugh And Sons Company
B. H. Brewster, Chairman of Board; F. White, Vice Chairman of Board; P. J. Prosser, President; H. Williams, Vice Pres. & Treas.; P. W. Sinwell, Vice President; L. A. Krebs, Vice President; B. H. Brewster, Jr., 2nd Vice Pres. & Asst. Sec.; Dorothy Q. Harper, 2nd Vice Pres. and Asst. Sec.; R. S. Hoffman, Sec.; B. W. Johnson, Sales Mgr.; A. C. Hill, Plant Mgr.

A—Virginia-Carolina Chemical Corp.
Portsmouth, Va. (Factory). General Offices: Richmond, Va.

RICHMOND

CF—Bone Dry Fertilizer Co.
P. O. Box 1655.
Ben B. LeCompte, Sr., owner. P. Croxton Lewis, Plant Mgr. 20,000 tons.

Cooperative Fertilizer Service of Richmond, Inc.
Home Office, W. T. Steele, Jr., Pres.; A. Preston Sale, Jr., Exec. Vice-Pres.; K. R. Eckles, Treas.; F. M. Armbrecht, Comptroller; Jas. R. Ayers, Jr., Sec.; Miss Louise Ruley, Asst. Sec., Culpeper, Va. 10,000 tons mixed fertilizer; Louisville, Ky. 40,000 tons mixed fertilizer; Winchester, Ky. 40,000 tons superphosphate and mixed fertilizer.

BF—Richmond Guano Company
P. O. Box 544.
W. E. Barret, President; W. B. Badenoch, Vice-Pres.; Wm. B. Badenoch, Jr., Asst. Sec.; L. Dudley George, Sec. & Treas.; Prod. Mgr. & Pur. Agent. 60,000 tons.

E—Tobacco By-Products and Chemical Corporation
(General Office, Factory, and Sales Office).
J. A. Howell, Pres.; G. F. Leonard, Exec. Vice-Pres.; C. B. Renne, Sr., Vice-Pres.; J. A. Arthur, Comptroller.

AE—Virginia-Carolina Chemical Corporation

(General Offices, Sales Offices and Factory). J. A. Howell, Pres.; C. Cecil Arledge, Vice-Pres.; Edwin Cox, Vice-Pres.; A. J. Dickinson, Vice-Pres.; Chas. E. Heinrichs, Vice-Pres.; Irving D. Dawes, Vice-Pres. and Treas.; Geo. Osborne, Sec. Sales Offices: Albany, Ga.; Atlanta, Ga.; Baltimore, Md.; Birmingham, Ala.; Carteret, N. J.; Cincinnati, Ohio; Columbia, S. C.; Dubuque, Iowa; Greensboro, N. C.; Jackson, Miss.; Memphis, Tenn.; Montgomery, Ala.; Norfolk, Va.; Orlando, Fla.; Richmond, Va.; Savannah, Ga.; East St. Louis, Ill.; Shreveport, La.; Wilmington, N. C.

SOUTH HILL

CF—Robertson Chemical Corp.
C. B. Robertson, President; J. E. Ames, Jr., Vice-President; R. S. Eggleston, Treasurer; J. Morton Eggleston, Secretary, C. W. Best, Production Manager; S. P. Anderson, Manager. 10,000 tons. Manufacturer fertilizer (but not Superphosphate or Sulphuric Acid).

SOUTH NORFOLK

A—F. S. Royster Guano Co.
Ft. of Ohio St. J. F. Walker, Supt.; K. C. Robinson, Mgr., Norfolk Sales Office. 125,000 tons.

SUFFOLK

C—Dixie Guano Company, Inc.
H. L. Bain, Pres.; R. G. Bain, Vice-Pres.; P. Wilson, Sec., Treas., & Gen. Mgr. L. M. Daniel, Plant Mgr. 15,000 tons.

WASHINGTON

COLFAX

C—Northwest Gypsum Co.
N. 201 Main Colfax.
Earl C. McEuen, Pres.; Arthur Stueckle, Sec.-Treas.; W. L. Clearwater, Prod. Mgr., Pur. Agent, and Mgr. Pesticide Div. 50,000 tons.

ELLENSBURG

C—Charles H. Lilly Co.
Leo Fryer, Plant Mgr. Office in Seattle, Wash.

LYNDEN

CIJ—Lynden Dept. Store, Inc.
Box 33.
W. H. Waples, Pres.; L. G. Judson, Vice-Pres. & Treas.; Peter Koert, Sec. Clarence Bode, Plant Mgr.; L. G. Judson, Pur. Agent

and Mgr. Pesticide Div. 4,500 tons.

MONROE

CFGJ—Shur-Crop Corp.

M. V. Wolfkin, Pres.; R. G. Herzog, Vice Pres.; V. J. Wolfkin, Treas.; R. G. Herzog, Prod. Mgr.; M. V. Wolfkin, Pur. Agent; M. V. Wolfkin, & R. G. Herzog, Plant Mgrs. 5,000 tons.

SEATTLE

ACDG—Alaska Liquid Fish Fertilizer Company

84 Seneca St., 1. E. J. Wolf, Owner; Miss B. Bucker, Sec.; Ed Sheeley, Plant Mgr.; Fred Steinert, Pur. Agent.

CEGJ—J. W. Dunn and Company

1912 Pike Pl.
H. W. Foster, Prop. 1,500 tons.

CEJ—Galbraith and Company

2423 Alaskon Way.
B. F. Morris, Pres.; F. S. Bogue, Treas.; Garnet G. Morris, Sec.; A. R. Burkette, Supt. & Mgr. Pesticide Div. 3,500 tons.

C—James Henry Packing Company

2025 Airport Way.
O. B. Joseph, Pres.; H. A. Kurtzman, Vice-Pres., Treas. & Prod. Mgr.; Kenneth Cole, Sec.; E. E. Murray, Mgr. E. J. Schlegel, Supt.; O. B. Joseph, Prod. Mgr. 300 tons.

CDEGIJ—Chas. H. Lilly Co.

1900 Alaska Way—
C. F. Larsen, Pres.; Karl Von Normann, Vice Pres.; E. E. White, Treas. & Sec.; Lee Fryer, Mgr. Fertilizers. 10,000 tons.

C—Magnolia Fertilizer Company

1144 Ballard Way.
H. Waltersdorph, Pres.; Florence Waltersdorph, Vice-Pres.; R. Franklin, Sec.; E. B. Helgeson, Treas.; Harry Renken, Plant Mgr. (Feed Pur. Agent) H. Waltersdorph, Fert. Pur. Agent; E. B. Helgeson. 3000 tons.

DFGJ—Malmo Nurseries and Seed Stores

4700 25th Ave., N.E.
Clark B. Malmo, Pres.; H. Jean Malmo, Vice-Pres. & Treas. Mrs. Eloise Caldwell, Sec.; Mrs. Alice Brandt, Mgr. Pesticide Div.

CI—Marine By-Products Fertilizer Co.

3303 Harbor Ave., S.W.
Willis R. Lebo, Pres.; W. R. Lebo, Jr., Vice-Pres.; Martha C. Lebo, Sec. & Treas. Ted McMann, Plant Mgr. 15,000 tons.

CJ—Oregon-Washington Fertilizer Company, P. O. Box 3324

Mac C. Taylor, Pres.; Frank W. Taylor, Vice-Pres. & Treas.; Allen Peyser, Sec. Two plants—Portland, Oreg. & Seattle, Wash. 20,000 for two plants.

KEY: A—Complete plant; B—Superphosphate, mixed fertilizers; C—Mixed fertilizer only; D—Sell goods manufactured for them;

D—Washington Co-Operative Farmers Assn.

201 Elliott Ave., West.
Emil Storm, Pres.; H. J. Beerninck, Gen. Mgr.; M. S. Allyn, Comptroller, F. T. Tremblay, Mgr. 12,000 tons fertilizer, 3,000 tons lime.

C—Wilbur-Ellis Company

500 Central Bldg.
Brayton Wilbur, Pres.; Ray B. Mattson, Vice-Pres.; E. W. Lockwood, Sec.; W. A. Hinckley, Treas.; John Stevens, Plant Supt. 5,000 tons.

SPOKANE

B—Activated Fertilizer Corp. of Washington, Activated Fert. Co.

737 Peyton Bldg.
S. E. Salter, Pres.; Floyd T. Vaughan, Vice Pres.; Bert P. Woolridge, Sec.-Treas.; Dwight F. Gustafson, Plant Mgr. 120,000 tons.

C—Spokane Portland Cement Co.

724 Old National Bank Bldg.
G. M. Bell, Pres.; Dwight D. Hartman, Sec.; W. W. Witherpoon, Treas.; Charles E. Cordell, Asst. Sec.; Robert Crook, Plant Mgr. 10 to 15,000 tons.

TACOMA

B—Carstens Packing Company

P. O. Box 1636. Thomas Carstens, Pres.; Philip Carstens, Vice Pres.; Mrs. Doris McKendry, Sec. & Treas.; Fred P. Parcher, Mgr. Fert. Dept. Otto Stoltz, Prod. Mgr.; Dave Boyd, Pur. Agent. 25,000 tons.

B—Stauffer Chemical Co.

Pacific Northwest Division
John Wheeler, Plant Supt.

WALLA WALLA

CDFGHJ—Simplot Soilbuilders

P. O. Box 285. J. R. Simplot, Pres.; Wells Labberton, Vice-Pres. & Mgr.; John Dahl, Sec.-Treas.; Wells Labberton, Plant Mgr. 2,000 tons.

Walla Walla Meat and Cold Storage Company

N. 4th Ave.
Mrs. F. M. Lowden, Jr., Pres.; Eugene Tausick, Vice-President; Theodore R. Rich, Treas. & Plant Mgr.; Harold Banks, Sec.; John Hargert, Prod. Mgr.; Mrs. Sharpe, Pur. Agent. Capacity 222 tons Animal By-Product—Dried Blood 21 tons.

WAPATO

FGH—Washington Liquid Fertilizer Co.

211 W. First St.
W. L. Mayo, Pres.; Geo. H. Pitt,

Sec. & Treas.; Gerald Eisenbeis, Plant Mgr. W. L. Mayo, Pur. Agent. 300,000 gal. Liquid Fertilizer.

WENATCHEE

Northwest Wholesale, Inc.

ABF—Wells & Wade, Inc.

L. C. Norlin, Mgr.; Chas G. Slick, Treas.; Lehm L. Brown, Sec.; E. W. Baker, Plant Mgr.; E. E. Kington, Pur. Mgr. 5,000 tons.

YAKIMA

Northwest Chemical Co.

Washington Organic Fertilizer, Inc.
409 Masonic Temple. L. M. Sanders, Pres.; Lane Mortland, Vice Pres.; O. J. Reynolds, Sec. Treas. & Plant Mgr.

CIJ—Yakima Valley Spray Co.

P. O. Box 513. R. L. Maultby, Pres.; A. J. Weeber, Vice-Pres.; S. W. Martin, Sec. & Mgr. 10,000 tons.

WEST VIRGINIA

CHARLESTON

CDI—Chemical Formulators, Inc.

Box 10035.

Station C.

R. E. Kincaid, Pres.; T. H. Kiefer, Vice Pres.; R. H. Erskine, Sec.-Treas.; R. E. Kincaid, Plant Mgr.; R. H. Erskine, Pur. Agent. 3,500 tons.

CDEFI—Miller Chemical Corp.

F. T. Fieory, Pres.; S. H. Stone, Vice Pres.; W. N. Long, Treas.; Ira Springer, Plant Supt.; S. H. Stone, Prod. Mgr.; F. F. Fieory, Mgr. Pesticide Div. 10,000 tons.

MORGANTOWN

Mathieson Chemical Corporation

Mathieson Hydrocarbon Chemicals Division

Ammonia Plant. Executive Offices: Baltimore, Md.

WISCONSIN

ANTIGO

CF—Wisconsin Farmco Service Coop.

Box #7.

Curtis Hatch, Pres.; A. C. Murphy, Vice Pres.; J. C. Green, Sec.-Treas.; Robert Sachschale, Plant Mgr.; Ray L. Pavlak, Gen. Mgr.; Clifford Kindschi, Mgr. Fert. Div. 10,000 tons.

CARROLLVILLE

C—United Fertilizer Company

Factory at Carrollville, Wis. F. L. Weyenberg, Pres.; Carl Greilach, Mgr. & Treas. 2,000 tons. Process Tankage Manufacturer.

GREEN BAY

BH—The Green Bay Fert. Co.

Box 273.

E. W. Forkin, Pres.; J. C. Barten, Vice-Pres.; Wm. Morris, Sec.; D. L. Cass, Treas. 8,000 tons.

C—Northwest Coop. Mills

E. A. Syftestad, Pres.; A. J. Smaby, Sec. & Treas.; A. H. Roffers, Gen. Mgr.; Jack Stolar, Prod. Mgr.; Dominick Stoler, Green Bay, G. O. McMillin, Pur. 50,000 tons. Plants at Green Bay, Wisc. & Winona, Minn. 30,000—Green Bay, 35,000 tons.

C—Wisconsin Farmco Service Co-operative

Curtis Hatch, Pres.; A. C. Murphy, Vice-Pres.; J. C. Green, Sec. & Treas.; Byrl Sotzen, Plant Mgr.; C. J. Kindschi, Prod. Mgr.; Ray L. Pavlak, Gen. Mgr. Administrative Office — 18 S. Thornton Ave., Madison, Wisc. 30,000 tons.

HILLSBORO

C—Kickapoo Fertilizers

Division of Midwestern Phos. Corp.

D. W. Aitken, Pres. & Gen Mgr.; A. W. Vodak, Head Foreman, 5,000 tons.

KENOSHA

CI—The N. S. Koos & Son Company

R. P. Koos, Pres. & Treas.; A. J. Newhagen, Vice-Pres.; Miss Grace A. Koos, Sec. 50,000 tons.

MADISON

D—Midwestern Phosphate Corp.

Box 948.
Donald W. Aitken, Pres. & Treas.; A. D. Strobar, Vice-Pres.

A—F. S. Royster Guano Company

C. F. Burroughs, Pres.; F. S. Moore, W. T. Wright, F. S. Royster, Jr., Vice Presidents; C. F. Burroughs, Jr., Treas.; Shepard R. Cooke, Sec.; D. Hatherly, Mgr. Madison Sales Office; C. B. Jenkins, Supt. 60,000 tons.

C—Swift and Co. Plant Food

Division Box 152

W. J. Klossner, Mgr. 30,000 tons.

Wisconsin Farmco Service Cooperative

The officers of our organization are: Curtis Hatch, Pres.; A. C. Murphy, Vice Pres.; J. C. Green, Sec.; G. R. Niebur, Treas.; Ray L. Pavlak, Gen. Mgr.; C. J. Kindschi, Prod. Mgr. We have four (4) mixing plants, namely: Antigo, Wisc., 10,000 tons; Green Bay, Wisc., 30,000 tons; Prairie du Chein, Wisc., 65,000 tons; Whitewater, Wisc., 25,000 tons. Total 130,000 tons.

MILWAUKEE

C—The Fertilo Corporation

James O. Montague, Pres. & Plant Mgr.; L. J. Weiss, Vice Pres.; Arthur J. Engel, Treas.; Wm. A. Wegener, Sec. 1,500 tons.

C—Milwaukee Sewerage Commission

P. O. Box 2079.

Ray D. Leary, Chief Engineer & Gen. Mgr.; Victor H. Kadish, Sales Mgr.; Lydia Bauer, Sec. Established 1926. 65,000 tons. Manufacturers of Milorganite Tankage, an organic Nitrogen Fertilizer.

NEILLSVILLE

CFHJ—H. H. Van Gorden & Sons

A. H. Van Gorden, Pres. K. S. Van Gorden, Vice Pres.; R. H. Van Gorden, Treas.; H. A. Van Gorden, Sec.; Martin Wagner, Plant Mgr. 2,000 tons.

PRAIRIE DU CHIEN

BH—Wisconsin Farmco Service Cooperative

Curtis Hatch, Pres.; A. C. Murphy, Vice-Pres.; James C. Green, Sec. & Treas.; Lyle Barndt, Plant Mgr.; Ray L. Pavlak, Gen. Mgr.; C. J. Kindsch, Prod. Mgr. 65,000 tons.

WATERTOWN

C—Wisconsin Plant Food, Inc.

P. O. Box 238.

P. H. Hornburg, Pres. & Plant Mgr.; Carl Greilach, Vice-Pres.; H. Wick, Sec. & Treas., P. H. Hornburg, Mgr. 5,000 tons.

WHITEWATER

CDF—Wisconsin Farmco Service Cooperative

Curtis Hatch, Pres.; A. C. Murphy, Vice Pres.; James C. Green, Sec. & Treas.; Stanley S. Schaefer, Plant Mgr.; C. J. Kindsch, Prod. Mgr. 20,000 tons. Main office and Sales Division, Madison, Wis. Ray L. Pavlak, Gen. Mgr.

WYOCENA

CDE—Wyocena Farmers Co-Operative Company

Harry S. Patchin, President; Elmer Skare, Vice-President; G. W. Spear, Sec., Treas. & Plant Mgr. 5,000 tons.

WYOMING

FT. LARAMIE

Ft. Laramie Fertilizer Company

Marie C. Hunts, Owner. Mine and Sell Natural Mineral Elements.

KEMMERER

D—Phosphate Fert. Co., Inc.

Mayben Fox, Pres.; Joseph Profaizer, Vice Pres.; Arthur Piz, Sec & Treas.; Matt Bertagnoli, Plant Mgr. 35,000 tons.

SAGE

C—San Francisco Chemical Co.

c/o Leefe Mind. D. L. King, Pres.; Rex L. Jones, Sec. & Treas.; Preston S. Pugmire, Supt.; Wm. Eschler, Plant Manager. 250,000.

THERMOPOLIS

Pacific Coast Fertilizer Co.

Main Office 1001 Northern Life Tower, D. R. Girdwood, Pres.; Kenneth P. Hutton, Gen. Mgr. W. T. Hardendorf, Supt.

ALASKA

KETHCHIKAN

Salmon By-Products Co., Inc.

Alaska Incorporation, Ketchikan, Alaska. Willis R. Lebo, Pres.; Willis R. Lebo, Jr., Vice-Pres. and Manager; Martha C. Lebo, Sec. Production 20,000 tons.

AUSTRALIA

SYDNEY, NEW SOUTH WALES

AD—Australian Fertilizers, Limited

5 Macquarie Place. Chairman of Directors, Sir Alex A. Stewart; T. H. Williams, Gen. Mgr.; R. J. Reid, Sec. 90,000 long tons.

CANADA

BELOEIL, QUEBEC

B—Canadian Industries, Ltd.

J. M. Bromley, Works Mgr.; H. H. Skelton, District Sales Mgr. 140,000 tons. Superphosphate, 50,000 tons Mixed Fertilizer.

CALGARY, ALBERTA

CJ—Burns & Co., Limited

Head Office & Plant, Calgary, Alberta, Canada. R. J. Dinning, Pres.; R. S. Munn, Gen. Mgr.; W. C. Stemp, Treas.; J. Howard Kelly, Sec. D. McLaren, Supt. 8,000 tons. Head office and Plant—Calgary, Alta. Manufacturing Plants: Edmonton, Alta., Prince Albert, Sask., Regina, Sask., Winnipeg, Man., Vancouver, B. C., Kitchener, Ont. Chemical Mixes at Vancouver, B. C. Organics at all plants.

A—Consolidated Mining & Smelting Co. of Canada, Ltd., The

Sales Office
Box 370.
R. E. Stavert, Pres., Montreal;

R. W. Diamond, Vice Pres., Western Region; L. O. Reid, Sec.; R. S. Woodford, Supt., Calgary; A. L. Irwin, Pur. Agent, Trail.

CHAMBLEY CANTON, QUEBEC

C—Agricultural Chemicals Limited
Chambly Canton, Sales & Works; M. J. Daignault, Mgr.; Albert LeGault, Supt.

CHARLOTTETOWN P. E. T.

C—The Island Fertilizer Co., Ltd.
A. A. Scales, Pres.; Louis Sadler, Vice-Pres.; L. H. Poole, Sec. & Treas.; Louis Sadler, Supt. 25,000 tons.

CHATHAM, ONTARIO

C—Canadian Industries, Limited
Box 270.

D. S. Aitken, Dist. Mgr.; Murray Smith, Works Mgr. 30,000 tons. Mixed Fertilizer only.

Canada Packers, Ltd.

Fertilizer & Feed Co. 25,000 tons

CORNWALL, ONT.

CGJ—Hy-Trous Co. of Canada
Box 1167. E. J. Kaneb, Pres. & Gen. Mgr. 10,000 tons.

EAST ST. JOHN, N. B.

C—Canada Packers Limited
J. K. Leggatt, Local Mgr. 35,000 tons.

EDMONTON, ALTA.

Burns and Co., Limited

R. J. Dinning, Pres.; R. S. Munn, Gen. Mgr. W. C. Stemp, Treas. J. Howard Kelly, Sec. D. McLaren, Supt.

GALT, ONTARIO

CE—Manchester Products

35 Amslie St. S.
I. K. Martin, Owner; R. I. Martin, Sec.; I. K. Martin, Mgr. Pesticide Div. 2,000 to 3,000 tons.

HALIFAX, N. S.

C—Canadian Industries, Ltd.

Fraser Ross, District Mgr.; A. B. Tolmie, Works Mgr. 25,000 tons.

HAMILTON, ONTARIO

AE—Canadian Industries, Ltd.

H. M. Jones, Works Mgr.; H. G. Sewell, Dist. Sales Mgr. 140,000 tons Superphosphate, 50,000 tons mixed Fertilizer.

Hamilton By-Products Coke Ovens, Limited

82-84 King St., East.
T. P. Pinckard, Gen. Mgr.; F. R. Palin, Sec. & Treas.; J. Campbell, Supt.; M. M. Brodie, Pur. Agent. 2,200 tons.

INGERSOLL, ONTARIO

C—Wm. Stone Sons, Ltd.
Pemberton St.

KEY: A—Complete plant; B—Superphosphate, mixed fertilizers; C—Mixed fertilizer only; D—Sell goods manufactured for them;

F. H. Stone, Pres.; A. E. Izzard, Vice-Pres.; L. A. Westcott, Treas. & Sec. Gen. Mgr. R. A. Stone, G. W. Fittock, Plant Supt.; M. A. Poole, Sales Mgr.; G. W. Lockhart, Office Mgr.; R. A. Stone, Gen. Mgr. 50,000 tons.

LaPRAIRIE, QUE.

C—William Houde Limited

Wm. Houde, Pres. & Mgr.; J. A. Leclerc, Sec.-Treas. 12,000 tons Compound Fertilizer.

LONDON

DFGH—Na-Churs Plant Food Co., (Canada) Ltd.

2 Langarth St.
B. Peterson, Pres.; H. Petrick, Vice Pres.; R. A. Bagley, Sec.-Treas.; E. McLachlan, Gen. Mgr. Mfg. Liquid Fertilizer ½ million gallons.

MONTRÉAL, QUÉBEC

C—Canada Packers, Limited

6000 St. Patrick St.
G. D. Mungall, Plant Mgr.; A. Fredette, Plant Supt.; D. M. Smythe, Pur. Agent. 50,000 tons.

C—Canadian Industries, Limited Agricultural Chemicals Dept. Head Office, P. O. Box 10, Montreal, Que. V. B. Lillie, Dept. Mgr.; J. W. Thompson, Sales Mgr.; L. V. Clegg, Prod. Mgr.; Plants at Halifax, N. S., Beloeil, Que., Montreal, Que., Hamilton, Ont., Chatham, Ont. Montreal Works 15,000 tons mixed fertilizer. S. Cree, Works Mgr.; H. H. Skelton, Distrist Sales Mgr.

A—The Consolidated Mining & Smelting Company of Canada, Ltd.

Main Sales Office, 215 St James Street, West. R. E. Stavert, Pres.; R. W. Diamond, Vice-Pres. Western Region; L. O. Reid, Sec.; R. D. Perry, Gen. Mgr.; A. Wilkinson, Mgr. Chem. & Fert. Sales Div. 575,000 tons.

NEW WESTMINISTER, B. C.

BGIJ—Green Valley Fertilizer & Chemical Co., Ltd.

F. V. Lumb, President; G. E. White Sales Mgr.; A. E. Wright, Plant Mgr.; D. Sharp, Prod. Mgr. 15 to 20,000 tons.

NORWICH, ONT.

CD—Witts Fertilizer Works, Ltd.

Box 157.
F. C. Bishop, Pres.; C. F. Bishop, Vice-Pres. & Pur. Agent.; J. C. Beattie, Sec.; J. W. Sinclair, Plant Mgr. 20,000 tons.

PORT DOVER, ONTARIO

CD—Misner Fertilizers

J. H. Misner, Pres.; O. W. Misner, Vice-Pres.; Ida A. Misner, Sec. & Treas. 5,000 tons.

PORT HOPE, ONT. CANADA

C—Agricultural Chemicals, Limited

—Sales & Works

P. O. Box 250.
M. J. Daignault, Mgr.; J. E. Morgan, Supt.

PORT WILLIAMS, N. S.

C—Canada Packers, Limited. (Fert. Div.)

P. O. Box 130.
J. S. McLean, Pres.; N. J. McLean, Vice-Pres.; A. T. E. Childs, Sec.; Frank I. Balcom, Mgr.; Gordon M. Gates, Supt. 10,000 tons.

PRINCE ALBERT

CDJ—Burns and Co., Limited

R. J. Dinning, Pres.; R. S. Munn, Gen. Mgr.; W. C. Stemp, Treas.; J. Howard Kelly, Sec. D. McLaren, Supt.; I. McCannon, Mgr.; E. Crowston, Prod. Mgr.; E. A. Myers, Pur. Agent. 800.

CJ—International Fertilizers Limited

T. S. L. Pope, Pres.; A. Lambert, Gen. Mgr.; Henri Giroux, Sec. & Treas. St. John Plant; L. J. Comeau, Supt. Quebec Plant; L. A. Hanson, Supt.; J. P. McHaffie, Prod. Mgr. 100,000 tons.

QUEBEC-SILLERY

C—Canada Packers, Limited

R. R. #1.
G. D. Mungall, Plant Mgr.; R. Dansereau, Supt. Plant—D. M. Smythe, Pur. Agent. 25,000 tons.

REGINA, SASK.

Burns & Co., Limited

Head Office & Plant, Calgary, Alta.

ST. JOHN, N. B.

C—Canada Packers, Limited

Box 1384.
J. K. Leggatt, Plant Mgr. 3,000 tons.

C—International Fertilizers, Ltd.

H. Giroux, Sec.-Treas.; T. S. L. Pope, Pres.; A. Lambert, Gen. Mgr.; L. J. Comeau & L. A. Hanson, Plant Mgrs.; J. P. McHaffie, Prod. Mgr. 100,000 tons.

SAINT STEPHEN, N. B.

C—Summers Fertilizer Company

Inc.
P. O. Box 488.
J. E. Totman, Pres.; W. A. Fessler, & R. E. Fraser, F. L. Litty, Vice-Pres.; N. K. Totman, Treas.; D. Z. Zavier, Sec.; W. E. Dresser, Plant Mgr.; J. E. Greenbough, Asst. Mgr. 25,000 tons.

SOUTH VANCOUVER, B. C.

Globe Fertilizer Company

J. Aiken. 4,000 tons.

STE FAY

C—Canada Packers Limited Fert. & Feed

2200 St. Clair Ave., West Head Office. 25,000 tons.

SUMMERSIDE, P. E. I.

Canada Packers Limited

J. K. Leggatt, Plant Manager. 15,000 tons.

THAMESVILLE, ONTARIO

CIJ—United Cooperatives of Ontario

Earl M. Grose, Mgr.; Sam Rankin, Supt. West Toronto, 12,-15,-000 tons — Thamesville 10,000 tons.

TORONTO, ONTARIO

C—Canada Packers Limited Fert. & Feed

2200 St. Clair Ave., West.

Head Office:

J. S. McLean, Pres.; Asst. to Pres. G. A. Schell; N. J. McLean, Vice-Pres.; A. J. E. Childs, Sec.-Treas.; T. J. Payne, Fertilizer & Feed Mgr.; Alex Mooney, Fert. & Feed Sales Mgr.; W. A. Buie, Supt. & Prod. Mgr.; D. Beck, Pur. Agent. Plants: Chatham, Ontario, 25,000 tons, Welland Junction, Ont. 18,000 tons, West Toronto, Ontario, 50,000 tons, Montreal, Quebec, 50,000 tons, Ste Foy, Quebec, 25,000 tons, East St. John, N. B. 35,000 tons, Summerside, P. E. I. 15,-000 tons, Port Williams, N. S. 10,000 tons.

C—Swift Canadian Company, Limited

Plant Food Division, E. R. Olsen, Mgr., Box 39, New Toronto, Ontario.

CEF—United Co-Operative of Ontario

Earle M. Grose, Mgr. Fert. and Agric. Chem. Div. Sam Rankin, Supt. 10,000 tons.

CDJ—Gordon Young, Limited

Gordon V. Young, Pres.; M. E. Young, & W. A. Young, Vice Presidents; M. E. Young, Treas.; W. A. Young, Sec.; G. W. Young, Pur. Agent.

TRAIL, B. C.

A—The Consolidated Mining & Smelting Co. of Canada, Ltd.

R. E. Stavert, Pres.; R. W. Diamond, Exec. Vice-Pres., Western Region; L. O. Reid, Sec. E. A. G. Colls, Mgr. Chemical & Fert. Division, A. L. Irwin, Pur. Agent. 575,000.

VANCOUVER, B. C.

CGI—Buckerfield's, Limited

P. O. Box 219.
E. E. Buckerfield, Pres.; Gordon Farrell, Vice-Pres.; R. S. McCall, Sec. & Treas., Jack Ordish, Plant Mgr.; D. A. MacLachlan, Mgr. Fert. & Insecticide Dept. 15,000 tons.

C—Burns & Co., Limited

R. J. Dinning, Pres.; W. C. Stemp, Treas.; J. H. Kelly, Sec.; I. M. McConan, Plant Mgr.; H. Munro, Prod. Mgr. 15,000 tons.

A—Consolidated Mining & Smelting Co. of Canada, Ltd.

West Coast Sales Office.
K. T. Seabome, Western Mgr. Chemical & Fertilizer Sales, 506 Marine Building. 575,000 tons.

Globe Fertilizer Corp.

WELLAND, ONTARIO

C—Canada Packers Limited Fert. Div.

J. S. McLean, Pres.; N. J. McLean, Vice-Pres.; S. G. Brock, Treas.; C. Wadge, Sec.; T. J. Payne, Plant Mgr.; Alex Mooney, Sales Prod. Mgr. 18,000 tons.

WEST TORONTO, ONTARIO

C—Canada Packers, Limited

2200 St. Clair Ave., W. (Fertilizer Division). T. J. Payne, Mgr. Willis Buie, Prod. Mgr.; Delbert Dupre, Pur. Agent. 50,000 tons. Alex Mooney, Sales Mgr.

CIJ—United Cooperatives of Ontario

Fertilizer & Agricultural Chemical Division. Earl M. Grose Mgr.; Sam Rankin, Supt. 12,000 to 15,000 tons.

WINDSOR, N. S.

C—Colonial Fertilizer Company, Limited

L. Bearne, Mgr. 30,000 tons.

WINNIPEG, MAN.

CJ—Burns & Co., Limited

Head Office at Calgary, Alta. Canadian Industries, Limited, Sales Office Head Office Confederation Bldg., Montreal, Canada

CUBA

HABANA

A—Productora de Superfosfatos, S.A.

Edificio Payret, Prado y San Jose.
George F. McDonald, Pres.; Luis G. Mendoza, Vice-Pres.; Fernando G. Mendoza, Sec. Roberto Fernandez Morrell, C. H. E. Prod. Mgr.; Manuel A. Maza, Ag. E. Pur. Agent. 60,000 tons.

CD—Productora de Acidos y Fertilizantes, S. A.

George F. McDonald, Pres.; Luis G. Mendoza, Vice-Pres.

Faustino Leal, Sec. Roberto Faez. Morrell, Supt., Manuel A. Maza, Traffic Mgr. 80,000 tons Mixed Fertilizer.

HAVANA

C—The American Agricultural Chemical Company

Sales Office and Factory, Reina Y Amistad, Palacio Aldama 2do. Piso.
Philip B. Arms, Mgr.; A. Costales, Jr., Supt.

Armour and Company, S. A., (Fertilizer Dept.)

166 Desamparados. O. J. Fischer, Mgr.

C—Cooperative Abonos Cuba, S. A. Noriega No. 12, Luyano, Habana, Cuba

Gabino Otero, Pres.; Carlos Maldonado, Emilio Diaz, Vice-Pres.; Apifanio Arce, Treas.; Antonio Avila, Sec. 50,000 tons.

C—Perez Galan Y Fernandez S. L.

Desagu No. 312.
Dr. Julio Forcade, Sec.; Agustin Meizoso, Plant Mgr.; Joaquin Fernandez, Prod. Mgr.; Angelberto Fernandez, Preh. & Sales Mgr.; Agustin Meizoso, Plant Mgr.; Joaquin Fernandez, Prod. Mgr.; Angelberto Fernandez 14,000 tons.

CDEI—Pereda Fernandez, Y Cia

P. O. Box 411.
Jesue Fernandez, Pres.; Luis Fernandez, Vice-Pres.; Ramon Llama, Treas.; Pedro A. Villoldo, Sec. Ramon Llama, Plant Mgr. also Mgr. Pesticide Div. 20,000 tons.

CD—Zaldo y Martinez, S. A.

Zanja No. 721 esquina a Hospital Fernando Martinez Zaldo, Pres.; Aquiles Martinez, Ernesto do Zaldo, Vice Pres.; Aquiles Martinez, Treas.; Fernando Martinez Zaldo, Sec.; Jose A. Fernandez, Plant Mgr. 27,000 tons, Annual Production 11,000 tons.

MATANZAS

C—Armour and Company, S. A. (Fertilizer Dept.)

O. J. Fischer, Mgr. Sales office Havana, Cuba.

HAWAIIAN ISLANDS

HONOLULU

AEFGIJ—Pacific Chemical and Fertilizer Co.

P. O. Box 48. Ronald Q. Smith, Pres.; H. C. Eichelberger, Vice Pres.; F. W. Broadbent, Vice Pres.; W. G. Hewitt, Vice Pres.; G. B. Hayes, Vice-Pres.; G. A. W. Hart, Treas. & Asst. Sec.; M. A. Pietschman, Sec.; J. S. Williamson, Asst. Treas.; W. J. L. Wilson, Supt. Four plants: Honolulu, Hilo, Kahului and Puhi. 45,000 tons.

son, Asst. Treas.; W. J. L. Wilson, Supt. Four Plants. Honolulu Hilo, Kahului and Puhi. 25,000 tons.

HILO

AE—Pacific Chemical & Fert. Co.

P. O. Box 48. Ronald Q. Smith, Pres.; H. C. Eichelberger, Vice Pres.; F. W. Broadbent, Vice Pres.; W. G. Hewitt, Vice Pres.; G. B. Hayes, Vice Pres.; G. A. W. Hart, Treas. & Asst. Sec.; M. A. Pietschman, Sec.; J. S. Williamson, Asst. Treas.; W. J. L. Wilson, Supt. Four plants: Honolulu, Hilo, Kahului and Puhi. 45,000 tons.

KAHULUI

CEFGJ—Pacific Chemical & Fertilizer Co.

Ronald Q. Smith, Pres.; H. C. Eichelberger, Vice Pres.; F. W. Broadbent, Vice Pres.; W. G. Hewitt, Vice Pres.; G. B. Hayes, Vice Pres.; G. A. W. Hart, Treas. & Asst. Sec.; M. A. Pietschman, Sec.; J. S. Williamson, Asst. Treas.; W. J. L. Wilson, Supt. Four plants: Honolulu, Hilo, Kahului and Puhi. 25,000 tons.

PUHI

CEFGJ—Pacific Chemical & Fertilizer Co.

Ronald Q. Smith, Pres.; H. C. Eichelberger, Vice Pres.; F. W. Broadbent, Vice Pres.; W. G. Hewitt, Vice Pres.; G. B. Hayes, Vice Pres.; G. A. W. Hart, Treas. & Asst. Sec.; M. A. Pietschman, Sec.; J. S. Williamson, Asst. Treas.; W. J. L. Wilson, Supt. Four plants: Honolulu, Hilo, Kahului and Puhi. 25,000 tons.

HOLLAND

UTRECHT

ABD—Albatros Superfosfaatfabrieken, N. V.

P. O. Box 45, (81 Mailebaan) J. D. Waller, Managing Director. 7,000 to 1,000,000 tons.

ISRAEL

HAIFA

AB—Fertilizers and Chemicals, Ltd.

M. A. Novomeysky, Chairman of Board; A. Goldberg, Managing Director; P. Singer, Finance Director; J. M. Fanto, Plant Mgr.; J. Motiuk, Prod. Mgr. 80,000 tons Sulph. Acid, 80,000 tons Super-phosphate.

PUERTO RICO

ARECIBO

CD—Marques Commercial, Inc.

P. O. Box 618. Bernardo Marques Ferra, Pres. Juan Marques Mayol, Treas. &

Coke Oven
Sulphate of Ammonia
Ammonia Liquor

CABLE ADDRESS—NITROPOD

NITROGEN PRODUCTS, INC.

National Bank Bldg.,

Charter 9-5900

Shipments
from all Coke-Oven
Producing Centers

New Brunswick, New Jersey

Plant Mgr.; Galo Taulet, Sec.; Juan Marques Mayol, Plant Mgr.; Bernardo Marques Ferrer, Pur. Agent. 10,000 tons.

CAGUAS

C—Cipriano Manrique, Inc.

Box 548.
Cipriano Manrique, Pres.; Enrique, Manrique and Celestino Seneriz, Vice-Pres.; Miguel A. Gonzalez, Treas.; Fernando Manrique, Sec. 10,000 tons.

GUANICA

A—Ochoa Fertilizer Corp.

Mixing plant.
Juan R. Gonzalez, Plant Mgr. 100,000 tons.

HATO REY

AJ—Ochoa Fertilizer Corp.

Luis R. Gonzalez, Pres.; Rafael M. Gonzalez, Vice-Pres.; Manuel V. Gonzalez, Treas.; Guillermo E. Gonzalez, Sec.; Isidoro A. Colon, Asst. Gen. Mgr.; Manuel Espino, Plant Mgr. Main Of-

fice, two fertilizer mixing plants, Superphosphate plant, sulphuric Acid Plant, Sulphate of potash plant, at Hato Rey, P. R. Mixing plant at Ponce, Puerto Rico, Mixing plant at Guanica, Puerto Rico. Mixing—Hato Rey, 100,000 tons.

MAYAGUEZ

CDE—Super-A Fertilizer Works, Inc.

P. O. Box 599.
Miguel A. Garcia Mendez, President; Luis Rechani Agrait, Vice-Pres.; Armando Rovira, Treas.; Carlos Garcia Mendez, Sec. 30,000 tons.

PONCE

A—Ochoa Fertilizer Corp.

Mixing Plant.
Jose A. Dueno, Plant Mgr. 50,000 tons.

SAN JUAN

C—Armour Fertilizer Works

Ochoa Bldg. A. W. Chandler, Div. Mgr. General Office: Atlanta, Ga.

C—San Miguel Fertilizer Corporation

Box 4391.
Marcelino San Miguel, Pres.; Manuel San Miguel, Jenaro San Miguel, Vice-Pres.; Luis de la Mata, Vice-Pres. in charge of Sales, Jose A. Martinez Roman, Treas.; Ana Maria Perez, Sec.; Jorge E. Goyco, Plant Mgr. S. M. H. Trading Corp. 70 Pine St., New York, N. Y. 80,000 tons.

BRITISH WEST INDIES

FALMOUTH, JAMAICA

Jamaica Fertilizer Products, Ltd.
Mae C. Whiteside, Pres.; William A. Whiteside, Vice-Pres.; C. A. Clarke, Treas.; Wm. A. Whiteside, Plant Mgr.

ROBERTSON CHEMICAL CORPORATION

ROBERTSONS
PROVEN
FERTILIZERS

Producers and sellers of
Commercial Fertilizers
Superphosphate
Sulphuric Acid
Fertilizer Materials

NORFOLK, VA.

General Offices:
Wainwright Bldg.

Sales Offices & Factories:
Norfolk & South Hill, Va.
Raleigh, N. C.
Statesville, N. C.
Wilmington, N. C.



KENT MILLS and FILTER AIR SEPARATORS

- Large Capacity • Low Power
- Minimum Maintenance

KENT MILL DIVISION

ABBÉ ENGINEERING COMPANY

50 Church Street, New York 7, N. Y.

CRUSHING, GRINDING, PULVERIZING
AND AIR SEPARATING MACHINERY

N - P - K

ALL 3 BASIC PLANT FOODS FOR FERTILIZER MANUFACTURERS

PRODUCTS:

"Nitrolime"—20.5% N

Sulphate of Ammonia—21% N

Calcium Nitrate—15.5% N

Nitrogenous Tankage—10/11% NH₃

Urea—45% N

Triple Superphosphate—46% A.P.A.

Di-Calcium Phosphate—30/32% A.P.A.

Muriate of Potash—60% K₂O

EXCLUSIVE SALES AGENTS FOR:

Bonneville, Ltd., Wendover, Utah

U. S. Phosphoric Products Division,
Tennessee Corporation, Tampa, Fla.

Centraal Stikstof Verkoopkantoor, N.V.
The Hague, Holland

Endicott-Johnson Corporation,
Endicott, N. Y.

Texas City Chemicals, Inc.
Texas City, Tex.

BRADLEY & BAKER

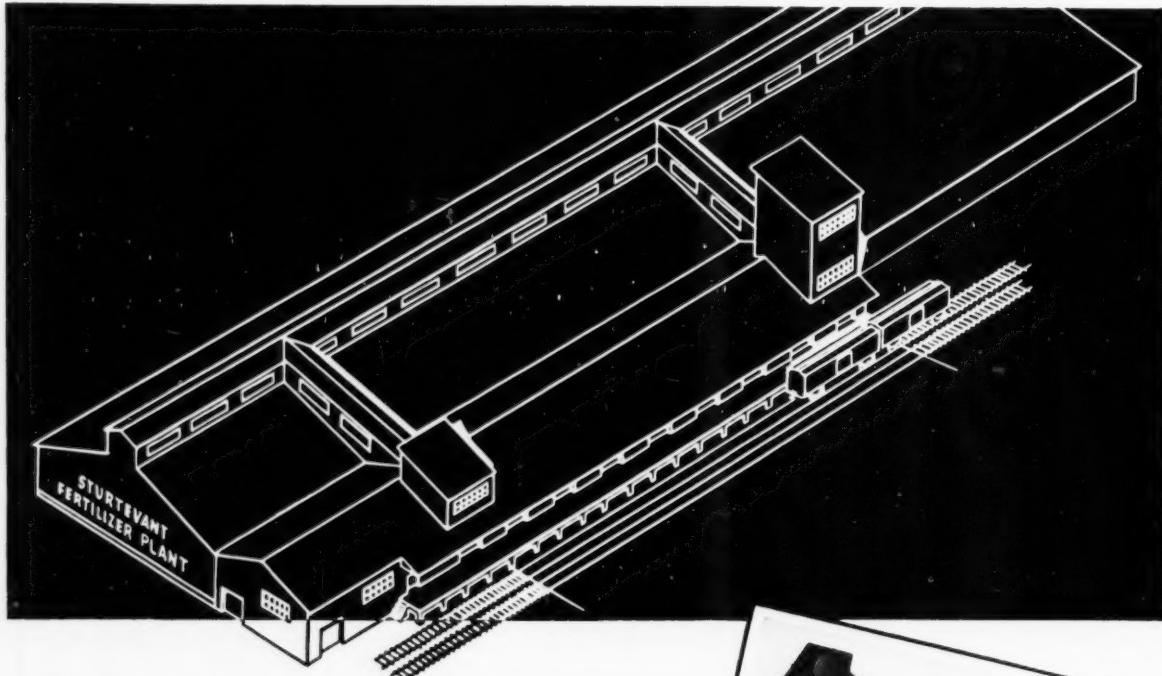
155 EAST 44TH STREET
NEW YORK 17, N. Y.

DISTRICT SALES OFFICES

BALTIMORE, MD. • HOUSTON, TEX. • JACKSONVILLE, FLA. • INDIANAPOLIS, IND. • ST. LOUIS, MO.

LARGE OR SMALL

STURTEVANT builds them all...



Each designed to produce maximum Fertilizer output

For over 71 years, Sturtevant Mill Company has been closely associated with the fertilizer industry . . . designing and supervising the construction of complete plants, and building quality machinery from individual machines for specific applications to complete processes, that speeds up fertilizer output, reduces overall production costs.

A recognized leader in the industry, Sturtevant Mill with its vast fertilizer manufacturing experience and know-how can effect operating economies for you.

Whether you plan to build a new plant, modernize or buy new equipment, it will pay you to consult Sturtevant Mill. Our engineers, specialists in fertilizer manufacture, are available for consultation. Ask for their services, today. You will keep ahead with Sturtevant.



Continuous Den or
Batch Den and Excavator
for producing superphosphate.

STURTEVANT MILL Company

111 CLAYTON STREET, BOSTON 22, MASSACHUSETTS

Designers of Complete Plants and Manufacturers of: CRUSHERS • GRINDERS • SEPARATORS • CONVEYORS • MECHANICAL DENS
and EXCAVATORS • ELEVATORS • MIXERS

BUYERS DIRECTORY

Page numbers of advertisements for the concerns listed in this section will be found on page 164.

Kent Mill Division
ABBE Engineering Co., Inc.
544 Union Ave., Brooklyn, N. Y.
 Crushing, Grinding, Pulverizing, Mixing, Sifting and Air Separating Machinery

Alabama By-Products Corp.
P. O. Box 354
Birmingham, Alabama
 Manufactures Sulphate of Ammonia for shipment in bulk or in bags.

The Albemarle Paper Mfg. Company, Richmond 17, Virginia
P. O. Box 2189.
 Manufacturers of Multiwall Paper Bags.

American Agricultural Chemical Co., 50 Church St., New York 7, N. Y.
Factories & Sales Offices:
 Alexandria, Va. A—Baltimore, Md. AE—Buffalo, N. Y. A—Carteret, N. J. AE—Charleston, S. C. A—Cincinnati, Ohio A—Cleveland, Ohio A—Sales Office only—Columbia, S. C. Sales Office Only—Detroit, Mich. AE—E. St. Louis, Mo. A—Greensboro, N. C. A—Havana, Cuba, C—Henderson, N. C. C—Houlton, Maine. Sales Office Only Laurel, Miss. Sales Office Only—Montgomery, Ala. A—Norfolk, Va. C—No. Weymouth, Mass. AE—Pensacola, Fla. A—Pierce, Fla. A—Port Hope, Canada C—Saginaw, Mich. C—Savannah, Ga. AE—Spartanburg, S. C.—C—Three Rivers, (Post Office, Phoenix) N. Y. C—Cayce, S. C. A—Fulton, Ill. A—Searsport, Me. C—Chambly, Quebec, Canada C—

Commercial Fertilizers, Superphosphate, Ground Phosphate Rock, Agrimite Tankage, Bone Black, Bone Black Pigments (Cosmic Black), Bone Ash, Bone Oil, Dicalcium Phosphate, Gelatin, Agricultural Insecticides (including Pyrox, Arsenate of Lead, Calcium Arsenate, etc.), Phosphodust, Trisodium and Disodium Phosphate, Phosphoric Acid, Sulphuric Acid, Ammonium Carbonate, Ammonium Fluosilicate, Magnesium Fluosilicate, Potassium Fluosilicate, Ferro-Phosphorus, Ammonium Fluoborate, Aluminum Fluoride, (Synthetic) Cryolite, Magnesium

Fluoride, Elemental and Red Phosphorus, Phosphorus Pentasulphide, Phosphorus Sesquisulphide, Zinc Fluosilicate, Salt Cake, Sodium Fluoride, Sodium Silicofluoride; Dealers in: Nitrate of Soda, Sulphate of Ammonia, Cyanamid, Raw Bone Meal, Steamed Bone Meal, Potash Salts. We mine and sell all grades of Florida Pebble Phosphate Rock.

American Cyanamid Company, Agricultural Chemicals Division
30 Rockefeller Plaza,
New York 20, N. Y.

Nitrogen Fertilizers: Calcium Cyanamid, Granular and Pulverized and Ammonium Nitrate. Anhydrous Ammonia and Sulfate of Ammonia. Florida Natural Phosphate Rock for acidulation and direct application. Defoliants: Calcium and Sodium Cyanamid. Weedkillers, Chemical Soil Conditioners, Insecticides, and Fumigants.

American Limestone Company,
Box 2389,
Knoxville, Tenn.
 Magnesium Limestone.

American Potash & Chemical Corp.,
3030 W. 6th St., Los Angeles 54, Calif.

Agricultural Pentahydrate Borax—44% B.O₃ guaranteed minimum, Borax—36.5% B.O₃ (Guaranteed 99.5% pure). Dehydrated Borax—68.5% B.O₃. Muriate of Potash—60% Grade. Sulphate of Potash—50% Grade.

Armour Fertilizer Works, General Offices: 350 Hurt Building, P. O. Box 1685, Atlanta 1, Ga.

Complete Fertilizers, Fertilizer Materials, Superphosphate, Triple Superphosphate, Sheep Manure.

Ashcraft-Wilkinson Company, Trust Co. of Ga. Bldg., Atlanta, Ga.

Fertilizer Materials, Cottonseed Products, Sulphate of Ammonia, Calcium Ammonium Nitrate, Ammonium Sulphate Nitrate, Nitrate of Lime, urea. Organic Ammoniates, Vegetable Meals and Feed Stuffs, Sulphur, Potash, All Grades Bone Meal, including Raw-Steam and Feeding, Fish Meal, Liver Meal, Ammoniated Phosphate, Triple Superphosphates, Phosphate Rock, Phosphate Rock Floats, Blood

and tankage, both domestic and foreign nitrogenous tankage, Limestone, Crude Ground Sulphur, Agricultural Insecticides and Chemicals.

Atlanta Utility Works, The, East Point, Ga. (Suburb Atlanta, Ga.)

Assembly Hopper Units, Acidulating Units, Architects & Engineers, Bagging Machines, Bagging Units, Basing Units, Bin Valves, Bucket Elevators (steel) Buckets, Carts, (Fertilizer), Cluster Hoppers, Complete Fertilizer Plants, Complete Mixing Units, Complets Superphosphate Plants, Continuous Acidulating Process Conveying Machinery, Conveyor Systems, Dens & Excavators, Dry Mixers, Dry Mixing Units, Elevator Casings (steel), Fertilizer Batching Hoppers & Mixing Equipment, Fertilizer Machinery, Head Breakers, Machinery, Conveying, Mixers, Acid Phosphate, Mixers, Dry, Mixing Machinery, Mixing Units, Multiple Hopper Batching Systems, Plant Mechanization Systems, Rotary Batch Mixers, Sacking Units, Scales, Shipping Units, Shuttle Belt Conveying Systems, Swing Bar Pulverizers, Tailing Mill, Weighing Hoppers.

Automatic Scale Company, Inc.
585 Hudson St.
New York 14, N. Y.
 Automatic Weighing and Stacking Scales.

Bagpak, Division
International Paper Co.
220 E. 42nd St.
New York 17, N. Y.

Manufacturers of Multiwall Paper Bags and Bag Sewing Equipment.

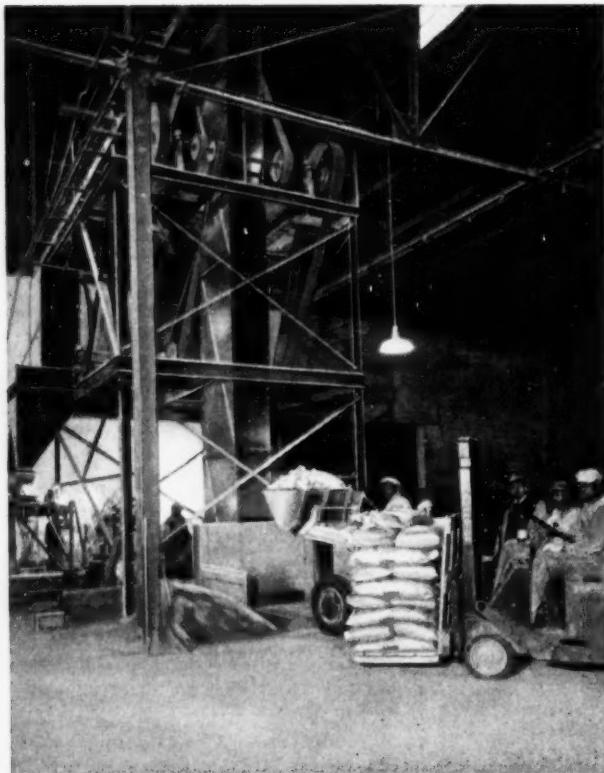
H. J. Baker and Bro.
600 Fifth Ave.
New York 20, N. Y.

Castor Meal, Vegetable Oil Meals (Feed and Fertilizer), Fish Meal & Scrap, Fertilizer and Feed, Potash, Nitrogenous Materials, Packing House By-Products, Liquid and Solid Nitrogen, Ammonium Sulphate Nitrate (ASN), Calcium Ammonium Nitrate (Montansalpeter), Nitrogen Tankage (Chicago Sludge), Hou-Actinite (Houston, Texas Sludge), Cocoa Tankage, Poultry Manure, Garbage Tankage, Superphosphate.

Baldwin Foundry & Machine Corp.
(Formerly Spalding Foundry Co.)
P. O. Box 1082, Atlanta, Georgia.

Founders, Machinists, Engineers, Fertilizer machinery, Re-

STEDMAN **FERTILIZER PLANT EQUIPMENT**



**ALL-STEEL SELF-CONTAINED ONE TON
MIXING AND BAGGING UNIT.**

Capacity 20 to 30 tons per hour. Entire unit driven by a 30 horse power motor.

Stedman All-Steel Self-Contained Fertilizer Mixing and Bagging Units are built in four (4) sizes. Capacities 10 to 60 tons per hour. All Units are of the heavy-duty type, designed for use with nitrogen solutions.

Special Units designed and built to suit all building conditions.

Stedman also build—

Batch Mixers, dust and gas tight construction, six (6) sizes, capacities 10 to 120 tons per hour.

Tailings Pulverizers—three (3) types, eight (8) sizes.

Vibrating Screens—Three (3) types, Twenty-two (22) sizes. Single, Double and Triple Deck.

Pan Mixers for manufacturing super-phosphate—Three (3) types, Five (5) sizes.

Weigh Scales for weighing pulverized phosphate rock and acid, also Hopper Scales for Batching Units.

Bucket Elevators, Hoppers and Chutes.

Over fifty (50) years experience in complete fertilizer plant design.

STEDMAN FOUNDRY & MACHINE COMPANY, Inc.

Subsidiary of United Engineering and Foundry Company

General Office and Works, Aurora, Indiana, U.S.A.

Builders of Dependable Machinery Since 1834

pairs, replacements; gears, sprockets, pinions, bearings, hopper valves, bag holders.

Bernis Bro. Bag Co., 408 Pine St., Box 46, St. Louis 2, Mo. Offices:
Albion, N. Y., Baltimore, Boise, Boston, Brooklyn, Buffalo, Charlotte, Chicago, Denver, Detroit, East Pepperell, Houston, Indianapolis, Kansas City, Los Angeles, Louisville, Memphis, Minneapolis, Mobile, New Orleans, New York City, Philadelphia, Pittsburgh, Norfolk, Oklahoma City, Omaha, Peoria, St. Louis, Salina, Salt Lake City, San Francisco, Seattle, Wichita, Wilmington, Calif.; Cleveland, O.; Phoenix, Ariz.; and Vancouver, Wash.

Manufacturers of cotton, burlap, Multiwall paper and waterproof laminated textile bags; bag closing twine and thread; and tarpaulins.

Bradley & Baker, 155 East 44th Street, New York, N. Y.

Offices: Baltimore, Jacksonville, St. Louis, Milwaukee, Indianapolis, Houston, Manufacturer's Agents, Importers-Exporters Fertilizer Material & Feedstuffs, Calcium Nitrate, Di-Calcium Phosphate, Muriate of Potash, Natural Organic Nitrogen, Nitrogenous Materials, Nitrogenous Tankage, Nitrolime (name accepted in official directory of Fertilizer Materials) Potash Materials, Sulphate of Ammonia.

Charlotte Tank Corporation

P. O. Box 8037

Charlotte 8, North Carolina

100 gallon applicator tanks, 150 gallon storage tanks, 300 gallon storage tanks, 500 gallon storage tanks, 1000 gallon storage tanks. Manufactured to a designed working pressure of 265 lbs. and stamped under the jurisdiction of the ASME Code. Each tank is equipped with a complete set of stainless steel fittings.

Chattanooga Wheelbarrow Co., Chattanooga 2, Tenn.

Manufacturers Fertilizer carts, wood and steel — Warehouse Trucks — Wheelbarrows

Chemical Construction Corp., 488 Madison Ave., New York 20, N. Y.

Synthetic Ammonia Plants—Ammonium Nitrate Plants—Ammonium Sulfate Plants—Contact Sulfuric Acid Plants—

Double and Triple Superphosphate Plants—Sulfuric Acid Concentrators—Phosphoric Acid Plants—Phosphoric Acid Concentrators—Ammonia Oxidation Units—Urea Plants.

**R. D. Cole Mfg. Company
Newnan, Georgia**

Manufacturers of Storage Tanks, Boilers, Coolers and Aluminum Tanks

Combustion Engineering, Inc., Raymond Pulverizer Division 1317 N. Branch St., Chicago 22, Ill.

Roller Mills with Air Separation Mechanical Air Separators Bowl Mills for Pulverized Fuel. Laboratory Equipment. Flash Drying Systems.

**Commercial Solvents Corporation
Agricultural Chemicals Division,
260 Madison Ave., New York 16,
N. Y.**

Anhydrous Ammonia, nitrogen solutions, solid ammonium nitrate, Insecticides (Benzene Hexachloride, Dilan).

**Continental Gin Company
Industrial Division**

P. O. Box 2614

Birmingham, Alabama

Conveyors: (All Types — Belt, Chain, Screw, Flight, Belt Conveyor, Belt Trippers, Belt Aleggers, Belt Pulleys, Belt Conveyor Idlers, Belt Plows); Screw Conveyors: (Helicoid & Sectional); Feeders: (Belt, Plant, Screw, Reciprocating, Vane, Apron Heavy Duty Cast Manganese Feeders); Screw Elevators; Elevators: (Belt Chain, Centrifugal Discharge, Continuous, Super-Capacity, Perfect Discharge, Elevators Buckets); Power Transmission Equipment: (Bearings, Pulleys, V-Belt Drives, Chain Drives, Shafting, Collars, Clutches, Speed Reducers.)

Contractors Machinery Co., Inc.

Clinton St.

Batavia, New York

Manufacturers of Bucket Loaders, pneumatic tired, 12 cu ft. capacity to 1½ cu. yds.

**Coronet Phosphate Co., (A Division of Smith-Douglass Co., Inc.)
19 Rector St.**

New York 6, New York

Phosphate Mines, Florida, Phosphate Miners, Phosphate, Phosphate Rock, Defluorinated Phosphate Rock.

**J. C. Corrigan Co., Inc.
41 Norwood St.
Boston 22, Mass.**

Engineers & Manufacturers of Bulk Material Handling Equipment — Bag Conveyors — Bag Elevators — Bins — Bin Valves — Bucket Elevators (steel) — Car Unloaders — Casings (Elevator — Steel) — Chutes — Coal & Ash Handling Equipment — Conveying Machinery — Conveyor Systems — Conveyors — (Belt, Apron, Spiral, Pan, Scraper Chain and other types) — Conveyors — (portable) Conveyors — (screw) — Conveyor Systems — Conveying Machinery — Electric Vibrating Conveyors — Elevators — Elevator Buckets — Elevator Casings (steel) — Feeders — (belt, chain reciprocating and vibrating — Gates — Hoppers & Spouts — Machinery — (conveying — Elevating For Handling Material — Power Transmission Fish Tankage) Material Handling Machinery — Multiple Hopper Batching Systems — Plant Mechanization Systems — Revolving Screens — Screens-Electric Vibrating — Screens — Screw Conveyors — Shuttle Belt Conveying Systems — Silos (Glazed Tile Silos with conveyor system) Skip Hoists — Storage Bins — Tankage Machinery — Track Hoppers — Vibrating Screens — Weigh Laries —

**Davidson-Kennedy Company,
Office at 1090 Jefferson St., N. W.
Mailing address P. O. Box 97,
Station "D", Atlanta, Ga.**

Manufacturers — Engineers Fertilizer Machinery — Complete Plant Layouts

**Davison Chemical Corporation, The
Davison Chemical Bldg., 101 N.
Charles St., Baltimore 2, Md.**

Manufactureis of:

Run-of-Pile Superphosphate, Granulated 20% Superphosphate, Sulphuric Acid, Phosphate Rock, Mixed Fertilizers

**Dings Magnetic Separator Co.
4711 W. Electric Ave.,
Milwaukee, Wisc.**

Magnetic Separators (Permanent & Electro) Lifting Magnets, Clutches, Brakes.

**Equitable Paper Bag Co., Inc.
45-50 Van Dam St.
Long Island City 1, N. Y.**

Manufacturers Multiwall Paper Bags — Sewn Open Mouth,

Pasted Open Mouth, Sewn Valve. 2 to 6 plies — plain or printed in 1 to 4 colors. Also Manufacturer Small Bags in Standard and "Take-Hold" (handle) styles for Consumer Applications.

Evans Metal Company
P. O. Box 97—North Side Station
Atlanta, Ga.

Manufacturers of Chemical sheet lead, lead pipe and antimonial lead pipe for the chemical trade.

Fertilizer Engineering & Equipment Company, Memorial Drive Green Bay, Wisc.

Engineers Contractors, and Equipment Manufacturers for the Fertilizer Industry. New plant construction — dry mixing, acidulating, granulating, complete units — Acidulating, Batch Weighing Systems, Mixing and ammoniating, Elevating and Conveying, Bagging and Shipping Granulating, Acid handling equipment, air ram gates, ammonia and acid storage tanks, ammonia service air compressors, bagging machines, batch and bag counters, box car loaders, Bin vibrators, batch and continuous mixers, bucket elevators, car pullers, chain and attachments clod breakers, conveyor belting, coolers, dryers, dial or beam scales, dust collecting systems, electric gates, Elevator buckets and chain fans for HF fumes, flowrators, fume scrubbers, hopper level indicators, hoppers, chutes and spouts manual lever gates, open and TE motors, 1-1½-2 ton unit pulverizers, rock dust silos, sulfuric acid pumps, side and bottom discharge cards, starters, switches and controls, 30-60 TPH screens, sprockets, skip hoists, tractors, valves, Vibrators (Air & Elec.) Weigh laries.

Fulton Bag & Cotton Mills, P.O. Box 1726, Atlanta 1, Ga.
Plants at: Atlanta, Ga., New York, N. Y., St. Louis, Mo., Kansas City, Kans., New Orleans, La., Dallas, Texas, Minneapolis, Minn., Denver, Colo., Los Angeles, Calif.

Manufacturers of Cotton, Burlap, Multiwall Paper & Water-Proofed Paper Lined Textile Bags; Used Hand Bags; Bagging; Bag Closing Twine Thread; Tarpaulins.

Gascoyne & Company, Inc.

27 S. Gay St.
Baltimore 2, Md.

Analytical and consulting chemists.

General American Transportation Corporation, 139 S. Fourth St., Louisville 2, Ky.

Dryers

General Industrial Development Corp.

270 Park Ave.,
New York 17, N. Y.

Processes, Engineering and Equipment to Manufacturer; Nitric Acid; Phosphoric Acid; Complex Nitrophosphate fertilizers; Prilled Ammonium Nitrate; Ammonium Sulfate; Calcium Ammonium Nitrate.

Gilman Paper Company—See Kraft Bag Corporation

Gruendler Crusher & Pulverizer Co. Plant & General Office—2915-22 N. Market St., St. Louis, Mo.

Manufacturers of: Ring Roll Mills, Hammer Crushers, Bone Grinders, Tankage Grinders, Phosphate Pulverizer, Compost Grinders, Batch Mixers, Roll Type Mixers and Screening Equipment.

Hammond Bag & Paper Co.

General Office, Wellsburg, W. Va.
Plants at Wellsburg, W. Va. Pine Bluff, Ark. and Charlotte, North Carolina.

Manufacturers of Multiwall Bags (and/or) Paper Bags for Fertilizers, Insecticides and Heavy Chemicals.

John J. Harte Company, 284 Tech-wood Drive, N.W., Atlanta, Ga.
Engineers—Constructors.

Acid Towers, Acidulating Units, Architects & Engineers, Chamber Plant Service, Complete Fertilizer Plants, Complete Superphosphate Plants, Designers & Builders, Double & Triple Superphosphate Plants, Engineers, Fertilizer Granulating Plants, Fertilizer Plants, Fume Scrubbing Systems, Sulphuric Acid Chamber Plants, Ammonium Sulphate Plants, Nitrophosphate Plants, Phosphoric Acid Plants, Insecticide Plants, Nitric Acid Plants.

Houston Laboratories, 311 Chenevert St. P. O. Box 132, Houston, Texas.

Analyses of Agricultural and Industrial Materials.

Hyster Company,
2903-07 N. E. Clackamas
Portland 8, Oregon

FACTORIES: 2903-07 N. E. Clackamas St., Portland 8, Oreg. 1011-07 Myers St., Danville, Ill. Manufacturers of Industrial Trucks — Lift Trucks — Turret Trucks use horizontal transporting trucks—Karry Krane use mobile cranes — Straddle Trucks use straddle carrier.

Industrial Marking Equipment Co.
454 Baltic St.
Brooklyn 17, N. Y.
Multiwall Bag Printer.

International Minerals & Chemical Corporation, 20 N. Wacker Drive, Chicago 6, Ill.

Complete Fertilizers. Standard grades. Multiple strength grades. Superphosphates. Sulfuric Acid. Florida Pebble Phosphate 77%—75%—72%—70%—68%. Tennessee Phosphate 65%—60% Muriate of Potash 60% K-O Granular Muriate of potash 50% K-O Sul-Po-Mag** (Double Sulfate of Potash-Magnesia). Sulfate of Potash 50% K-O—Stock Salt.

**Trade Mark Reg. U. S. Pat. Off.

International Ore & Fertilizer Corporation, 500 Fifth Ave., New York 36, N. Y.

Superphosphates, Ammonium Sulphate, Ammonium Phosphate, Ammonium Nitrate, Calcium Ammonium Nitrate, Calcium Nitrate, Mixed Fertilizers, Muriate of Potash, Sulphate of Potash, Phosphate Rock, Seeds and Feeds

International Paper Co.
See Bagpak Division

Jaite Company, The, Jaite, Ohio.
Division of National Container Corporation
Manufacturers of Paper and Paper Bags

Heavy duty Multiwall Paper Bags.

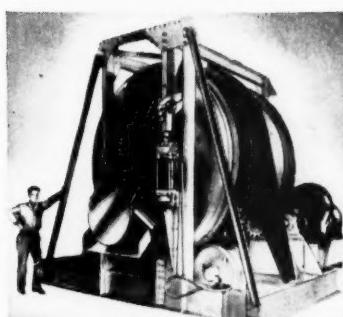
Jefferson Lake Sulfur Company
1408 Whitney Bldg.
New Orleans 12, La.
Crude Sulphur Producers.

Samuel D. Keim, 604 Liberty Trust Building, Philadelphia 7, Pa.
Feeding and Fertilizer Materials.

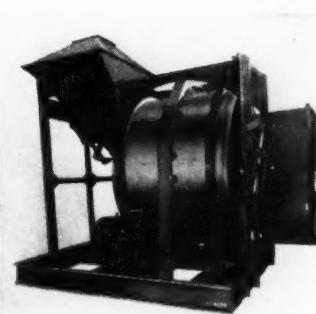
Kent Mill Division—See Abbe Engineering Co., Inc.



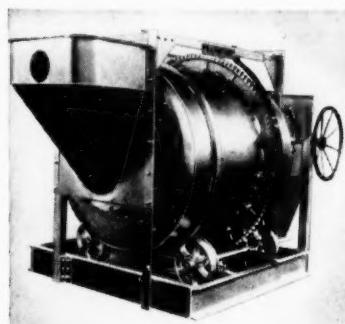
**CHEMICALS • DRUGS • PLASTICS • METALS
FOOD • CANDY** — Pan tilted and rotated by motors.



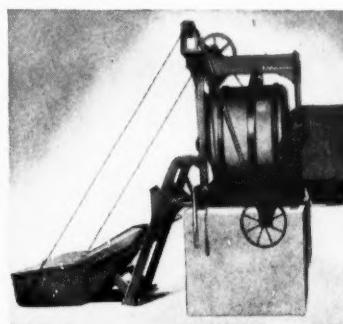
FURNACE CHARGES—One of the largest industrial mixers.



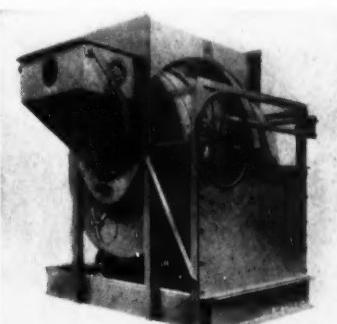
ENAMEL FRITS • GLASS—50 cu ft. Fully-automatic, electrically controlled charging and discharging.



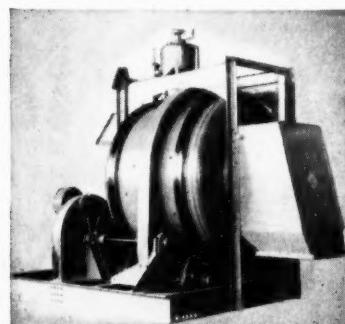
SOAP POWDER • PIPE TOBACCO • SNUFF —
Dust-proof mixer for blending and mixing.



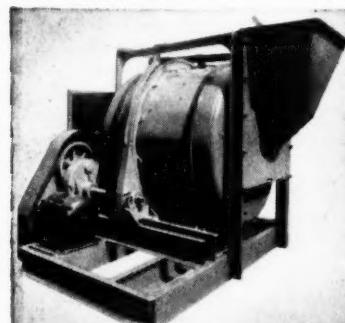
GLASS BATCHES • REFRactory CEMENT—28 cu
ft mixer with elevating power loader.



FERTILIZER—Standard sizes, $\frac{1}{2}$ -, 1-, 2-, 3-ton capac-
ity. Also used for asbestos products, etc.



CHEMICALS—Equipped with liquid measuring tank
for use in various chemical applications.



**COMPOSITION MATERIALS • INSULATING AND
REFRACTORY CHEMICALS • CLAY • GLASS
BATCHES • FOUNDRY CORE SAND**—13 cu ft dry
mixer.

What Do You Mix?

• Here's a partial line-up of industrial mixers bearing the famous Worthington trade-mark—which means the right design for every type of mix.

And you'll find in every mixer the following Worthington features: *thorough*, fast mixing (or blending) of even the finest dry materials or colors in any proportion . . . *clean* discharge . . . dust-proof design (where required) . . . *heavy-duty* construction.

For solutions of your particular mixing problems
or for free bulletins, write:

Worthington Corporation
Industrial Mixer Division
Plainfield, New Jersey

YR.3.7

WORTHINGTON



Kraft Bag Corp., The, 630 5th Ave., New York 20, N. Y.; Western Sales Office: Daily News Bldg., Chicago 6, Ill.

Manufacturers of Kraft-Lok, valve-type gusseted bags for granular or pulverized materials, and Heavy-Duty, Multi-Wall Shipping Sacks; open mouth or valve; pasted or sewn; flat sewn valve; flat sewn open mouth; 2 to 6 ply; printed or plain.

Lakeland Engineering Associates, Inc. 221½ S. Tennessee Avenue Lakeland, Florida

Complete Fertilizer Plants, Designs, Engineers, Consulting Engineers

Law & Company, P. O. Box 1558, Atlanta 1, Ga.
Consulting and Analytical Chemists.

**Link-Belt Company
300 W. Pershing Rd.,
Chicago 9, Illinois**

Offices: Albany 2, Atlanta, Baltimore 18, Birmingham 3, Boston 15, Buffalo 3, Charlotte 2, N. C., Chicago 9, Cincinnati 2, Cleveland 15, Dallas 21, Denver 2 (Schloss & Shubart), Detroit 4, Duluth 2, Grand Rapids 7, Houston 1, Huntington 1, W. Va., Indianapolis 6, Jacksonville 2, Kansas City 8, Mo., Los Angeles 33, Louisville 2, Milwaukee 3, Minneapolis 5, Moline, Ill., Newark 8, N. J., New Orleans (R. J. Tricon Co.), New York 7, Oakland 7, Calif., Philadelphia 40, Pittsburgh 13, Portland 9, Ore., St. Louis 1, Salt Lake City 1, San Francisco 24, Seattle 4, Spokane 1, Washington 1, D. C., Wilkes Barre, Pa., Wilmington 43, Del., In Canada: Link-Belt Limited, Halifax, N. S. (Austen Bros. Ltd.), Hamilton, Montreal 15, Swastika, Ont., Sydney, N. S. (Austen Bros. Ltd.), Toronto 13, Vancouver 12, Winnipeg. In Africa: Link-Belt Africa Limited, Springs. In Australia: Link-Belt Company Pty. Limited, Sydney. Distributors and Representatives throughout the world.

Ammoniators: Ammonium Nitrate Plants; Ammonium Sulfate Plants; Bearings; Belting; Bins; Bin Valves; Bucket Elevators (Steel); Car Pullers; Car Unloaders; Casings (Elevator, Steel); Castings (Chemical, Gray Iron); Castings; Chains; Chain (Conveyor, Elevator and Power Transmission) Chutes; Complete Fertilizer Plants; Complete Mixing Units; Complete Superphosphate Plants; Conveying Machinery; Conveyor Sys-

tems; Coolers (Rotary); Crushing Rolls; Cranes, Power; Designers & Builders; Disintegrators; Drives; Dryers (Rotary); Drying Machinery; Dry Mixers; Dry Mixing Units; Drums; Electric Vibrating Conveyors; Elevators; Elevator Buckets; Elevator Boots; Elevator Casings (Steel); Engineers (Fertilizer Plants and Equipment); Feeders; Fertilizer Granulating Plants; Fertilizer Machinery; Foundries; Fluid Drives; Gearmotors; Gears; Granulators; Granulation Plants; Grit Washers; Hoppers; Track; Hopper Valves; Hoppers (Weighing); Idlers (Belt Conveyor) Machinery (Ammoniating); Machinery (Crushing); Machinery (Elevating); Machinery (For Handling Materials); Machinery (For Power Transmission); Mixers (Continuous); Mixing Machinery; Monovoyor Systems; Nodulizers; Nitrophosphate Plants; Pillow Blocks; Plant Mechanization Systems; Pulleys; Pullers, Car; Reducers Units (Speed); Roll Crushers; Scoops, Power Unloading; Screens; Shakers, Car; Shuttle Belt Conveying Systems; Silent Chain Drives; Skip Hoists; Special Fabrications; Speed Reducers Units; Sprockets; Take-Ups; Unloading Scoops, Power; Urea Plants; Variable Speed Drives; Vibrating Screens; Weigh Larries; Winches (For Shifting Cars).

**Lion Oil Company,
El Dorado, Arkansas**

Anhydrous Ammonia-Commercial Grade; Aqua Ammonia; Ammonium Nitrate Fertilizer, minimum 33.5% N.; Nitrogen Fertilizer Solutions #1, #2 and #3. Sulphate of Ammonia, Minimum 21% N.; Sulphuric Acid.

**Longview Lime Corporation
1717 Second Ave., South
Birmingham 3, Ala.**

(Mill & quarries Longview #2, Ala.) Lime (Calcium Oxide); (Calcium Hydroxide); Agric. Bldg. & Chem. uses; Masonry Cement (Mortor Mix) Road & Furnace Stone.

**The Mackwin Company
Winona, Minn.**

Aldrin, chlordane, dieldrin, heptachlor and other fertilizer concentrates.

Alex. M. McIver & Son, 504 Peoples Bldg., Charleston, S. C.
Sales Agents (Brokers): Bags

(textile & paper), Conditioners, Base goods, Superphosphate, Ammoniated superphosphate, Limestone (dolomitic), Blood, Fertilizer tankages, Fillers, Fertilizer materials, Ground Tobacco Stems, Tung Meal & Hulls, Castor Pomace, Sulphuric Acid, Ground Rice Hulls, Bone Meals, Ground Cotton Bur Ash 38.42% K₂O, Potashes, Nitrogenous organic materials, Zinc sulphate, Ground Peanut Hulls, Blue Lupine Seed Meal, Vermiculite, Fish Scrap, Cottonseed Meal, etc., Fertilizer Borate.

**Mathieson Chemical Corporation
Mathieson Agricultural Chemicals Division
P. O. Box 991,
Little Rock, Ark.**

Agricultural Insecticides, Ammonia-Anhydrous, Ammoniated Base Goods, Ammoniated Superphosphate, Ammonium Phosphate, Base Goods, Complete Fertilizers, Fertilizer Compounds, Fertilizer Materials, Fungicides, Nitrogen Fertilizer, Insecticides, Mixed Fertilizer, Nitrate of Soda, Nitrogen, Sulphate of Ammonia, Sulphuric Acid, Superphosphates, Processed Sulphur.

**Melson Fertilizer Company, Inc.
Georgetown, Del.**
Dehydrated Poultry Manure.

**Monsanto Chemical Company
1700 S. 2nd St.,
St. Louis 4, Mo.**

Ammonium Phosphate, Dicalcium Phosphate, Mono; Calcium Phosphate, Mono; DDT; Ferrophosphorus; Herbicides; Insecticides; Larvacides; Mothcides; Industrial Preservatives; Silica Aerogel; Phosphoric Acid; Sulphuric Acid; Wetting Agents; Emulsifiers; Wetting Agents; Emulsifiers; Soil Conditioners.

**Morris Testing Laboratories,
524 First St. Macon, Ga.**
P. O. Box #803
Analysts and Consulting Chemists.

National Lead Company, Atlanta Branch, P. O. Box 7008 Station "C," Atlanta, Ga.

Acid Handling Products, Babitt Metals, Chemical Sheet Lead, Lead Pipe, Burning Bar, Hard Lead, Lead Lined Equipment.

THE 515* SACKING SCALE

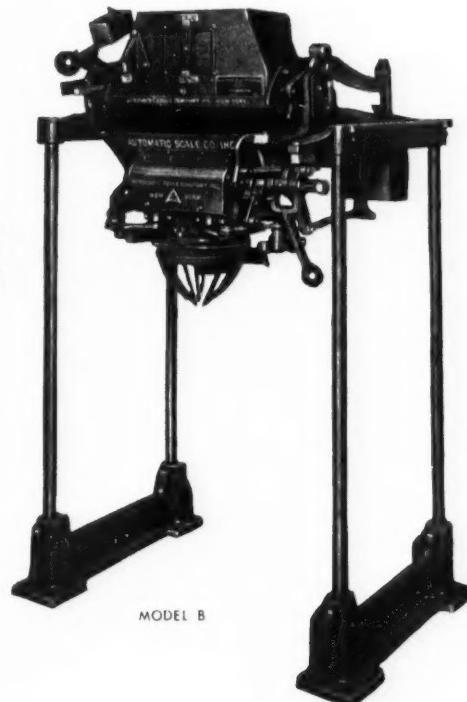


FAST—25 to 35 tons per hour with one man. Many users report even higher production.

ACCURATE enough to satisfy the most exacting.

Bag Clamp handles paper, burlap, and cotton sacks. Automatically adjusts itself to any thickness or size of bag from 36" to 60" cut circumference.

You should know more about this time and money saver.



MODEL B

No gates to close—nothing to watch—operator handles only empty sacks... clamp the bag—the scale does the rest. No trimming. Better Inventories.

*Trade Mark

AUTOMATIC SCALE COMPANY

INCORPORATED

made the first automatic sacking scale for fertilizer and heavy chemicals.
We still make the best. Write for details.

591 HUDSON STREET.

NEW YORK CITY.

NITROGEN Division, Allied Chemical & Dye Corp., 40 Rector St., New York 6, N. Y.

Ammonium Sulphate; Sodium Nitrate; "Arcadian" Nitrate of Soda; Urea Products; Aqua Ammonia; Ammonium Nitrate — Ammonia Solutions; "Nitrona"; Urea-Ammonium Nitrate Solution, Gran Urea Ammonium, Nitrate Ammonia Solution "Urana" Ammonium Nitrate-Sodium Nitrate Solution, "Sodan"; Ammonium Nitrate Limestone; "A-N-L" Brand Fertilizer Compound; Weed Killers; Insecticides; Fertilizers; "Arcadian" 12-12-12 Granulated.

**Nitrogen Products, Inc.
National Bank Bldg.
New Brunswick, N. J.**

Sulphate of Ammonia, Nitrogen, Ammonium, Ammonia Liquor, Benzol, Toluol, Xylool.

**Northern Chemical Industries, Inc.
Searsport, Maine. (A subsidiary of Summers Fertilizer Co., Inc., Baltimore, Md.)**

Manufacturers of Sulphuric Acid — Superphosphate — Base Goods — Ammoniated Superphosphate Sodium Silico Fluoride, Sulphate of Ammonia, and Liquid Alum — (Paper Makers Grade)

**Pacific Coast Borax Co., Division of Borax Consolidated, Limited, 100 Park Ave., New York 17, N. Y.
2295 Lumber Street, Chicago 16, Illinois, 630 Shatto Place, Los Angeles 5, Calif.**

Miners and manufacturers of Borax, Boric Acid, Fertilizer Borates, High Grade and Regular—Herbicides; Borascu (R)1, Borascu 44, Concentrated Borascu, Polybor (R) 2 and Polybor Chlorate 3.1 a Form of Sodium Borate Ore; 2—Sodium Polyborate, 3—Sodium Polyborate and Sodium Chlorate.

**Piedmont Chemical Co.
P. O. Box 67
Athens, Ga.**

Sulphate of Ammonia.

Planters Fertilizer & Phosphate Co., P.O. Box 865, Charleston, S. C., and Charlotte, N. C.

Sulphuric Acid, Superphosphate, and Complete Fertilizers.

**Plasteel Products Corporation
Washington, Pennsylvania**

Mica Protected Metal Roofing and Siding.

Potash Company of America, 1625 Eye St., N.W., Washington, 6, D. C.

Manure Salts, Sulfate of Potash, Granular Muriate of Potash, Standard Muriate of Potash, Technical Grade Muriate of Potash—99.9 KCL.

**A. F. Pringle & Co., Inc.
P. O. Box 904 or
141 East Bay St., Charleston, S. C.**

Manufacturers of Commercial Fertilizer, Superphosphate, Sulphuric Acid, Importers and distributors of all kinds of fertilizer materials.

The Quaker Oats Company, Chemicals Department, Merchandise Mart Plaza, Chicago 54, Illinois

Manufacturer of furfural residue, organic conditioner for commercial fertilizers.

**Raymond Bag Company, The,
Middletown, Ohio.**

Manufacturers of Multiwall Paper Shipping Sacks, open mouth and valve in both pasted and sewed types.

**Raymond Pulverizer Division,
Combustion Engineering, Inc., 1317 No. Branch St., Chicago 22, Ill.**

Roller Mills with Air Separation, Mechanical Air Separators, Bowl Mills for Pulverized Fuel Laboratory Equipment, Flash Drying Systems.

**Robertson Chemical Corporation,
Wainwright Bldg., Norfolk, Va.
Sales Offices & Factories: Norfolk & South Hill, Va.; Raleigh, Statesville, and Wilmington, N. C.**

Producers & Sellers of Commercial Fertilizers, Superphosphate, Sulphuric Acid, Fertilizer Materials. Pure Nova Scotia Land Plaster Prepared & Burned Shell Lime.

**Royster Guano Company, F. S.
P.O. Drawer 1940, Norfolk 1, Va.**

Agricultural Chemicals, Ammoniates, Complete Fertilizers, Fertilizer Materials, Nitrate of Soda, Phosphate Rock, Sulphuric Acid, Superphosphate, Land Plaster.

**A. J. Sackett and Sons Co.,
1727 S. Highland Ave.,
Baltimore 24, Md.**

Aerating Equipment, Automatic Control Equipment, Automatic Packaging Equipment, Basing Units, Belt Conveyors, Bucket Elevators, Centralized Control Systems, Continuous Acidulating Processes, Continuous Ammoniating Systems, Conveyors, Coolers, Crushers, Disintegrators, Dry-Mixing Units, Dust-Arresting Equipment, Fume

Scrubbing Systems, Hoppers and Spouts, Materials Handling Equipment, Milling and Screening Units, Multiple Hopper Batching Systems, Oil Fired Dryers, Plant Mechanization Systems, Pneumatically-Operated Gravity Batch Mixers, Pneumatically-Controlled Valves, Pulverizers, Sackett Timken Bearings, Sacking Units, Scales, Screens, Shipping Units, Shuttle Belt Conveying Systems, Tailing Mills, Vacuum Condensing Systems, Also Designers and Builders of Complete Fertilizer Mixing Plants and Superphosphate Manufacturing Plants. Complete Modernization Systems for Obsolete Fertilizer and Superphosphate Plants.

St. Regis Sales Corporation, 230 Park Ave., New York 17, N. Y.; Allentown, Pa., Atlanta, Baltimore, Birmingham, Boston, Buffalo, N.Y., Chicago, Cleveland, Denver, Detroit, Houston, Kansas City, Mo., Los Angeles, Louisville, Minneapolis, New Orleans, New York, Norfolk, Ocala, Fla., St. Louis, Mo., San Francisco, Salt Lake City, Seattle, Toledo, IN CANADA: St. Regis Paper Co. (Can.) Ltd., Montreal, Hamilton—Vancouver.

Multiwall Paper Bags (Multiwall paper shipping sacks), sewn and pasted valve bags, sewn and pasted open mouth bags; Automatic Weighing Machines; Valve bag Packing machines; open mouth filling unit; Wire ties.

**Shuey & Company, Inc.
115 E. Bay St., Savannah, Ga.**

Analysis of Fertilizers and Fertilizer Materials.

Smith-Rowland Co., Norfolk 1, Va.

Manufacturers of Nitrogenous Tankage.

**Southern Fertilizer & Chemical Co.
Main Office: Savannah, Georgia.
Plants: Savannah, Ga.; Atlanta, Ga.; Charleston, S. C.: Roebuck, S. C.**

Manufacturers Superphosphate, Sulphuric Acid, Complete Fertilizers, Ammoniated Superphosphate. Exporters Superphosphate, Ammoniated Superphosphate and Complete Fertilizers.

Southern Lead Burning Co., 956 Adamson St., S.W., P.O. Box 4627, Atlanta, Ga.

Acid Pumps, Valves, Lead Acid Resisting Fans, Lead, Lead

Burning, Sulphuric Acid Chamber Plants, Acid Handling and Diluting Equipment for Acidulating Plants, Lead Coolers, Lead Coils, Tanks.

**Southern States Phos. & Fert. Co.
P.O. Box 546, Savannah, Ga.**

Manufacturers of Sulphuric Acid, Superphosphate, Complete Fertilizers and all types of Base Goods, Importers and Exporters of Fertilizer and Fertilizer Material.

**Southwest Potash Corporation
61 Broadway
New York 6, N. Y.**

Muriate of Potash

Spalding Foundry Company
See Baldwin Foundry & Machine Corp.

**Spencer Chemical Co.
Dwight Building,
Kansas City 5, Mo.**

District Sales Offices:
Candler Bldg., Atlanta, Ga.; First Nat'l. Bank Bldg., Chicago; and Union Planters Bank Bldg., Memphis, Tennessee.

Spensol (Spencer Nitrogen Solutions A, B, C, D & U); Anhydrous Ammonia; Aqua Ammonia; Spencer "Mr. N" Ammonium Nitrate Fertilizer.

Stedman Foundry & Machine Company, Inc. Subsidiary of United Engineering & Foundry Company, Aurora, Indiana

Acidulating Units, Batch Mixers, Batching Hoppers, Bone Mills, Cage Mills, Castings (gray iron), Chemical Castings, Chemical Plant Equipment, Clod Breakers, Complete Fertilizer Plants, Conveying Machinery, Conveyors, Crushing Machinery, Disintegrators, Elevators, Elevator Buckets, Elevator Casings (steel), Engineers, Founders, Hoppers, (Weighing), Machinery (abattoir), Machinery (crushing), Machinery (elevating), Machinery (fertilizer), Machinery (for dry mixing), Machinery (for grinding), Machinery (mixing), Machinery (for handling materials) Machinery (tillage), Metals (perforated), Mixers (acid phosphate), Mixers (batch), Mixers (dry), Mixing Machinery, Mixing Pans, Mixing Units, Pulleys, Pulverizers, Rock Crushers, Rotary Batch Mixers, Sack Holders and

Valves, Sacking Machines, Scales (acid weighing), Shipping Units, Tailings Mills, Tankage Machinery, Vibrating Screens, Weighing Hoppers.

Stephens—Adamson Mfg. Co., 420 Ridgeway Avenue, Aurora, Ill.
Southern branch office, Box 268, Station "A", Atlanta, Georgia

Manufacturers of all types of Bulk Material Handling equipment, including belt conveyors, bucket elevators, and box car loaders. Also a complete line of bearings, speed reducer units, winches and car pullers, bin valves, idlers, and vibrating conveyors.

Sturtevant Mill Company, Dorchester, Boston 22, Mass.
Park & Clayton Sts.

Acidulating Units, Automatic Weighing Machines, Bagging Scales, Batch Mixers, Belting (Chain), Belting (Conveyor), Belting (Rubber and Cotton), Buckets (Elevator), Clod Breakers, Consulting Engineer, Conveyors (Belt, Apron, Spiral, Pan, Scraper, other types), Conveyors (Belt), Conveying Machinery, Crushing Machinery, Crushing Rolls, Dens and Excavators (Mechanical), Designs, Dry Mixers, Elevating Machinery, Elevators, Elevator Boots and Buckets, Elevator Casings (steel), Engineers (Chemical and industrial), Fertilizer Granulating Plants, Fertilizer Machinery, Fertilizer Plants, Gypsum Machinery, Hopper (Scale), Machinery (Dry Mixing), Machinery (Grinding), Mining Machinery, Mixers (Superphosphate), Mixing Machinery (all types), Mixers (Dry), Mixing Units, Ore Milling Machinery, Oyster Shell Machinery, Phosphate Machinery, Pulverizing Machinery, Rotary Batch Mixers, Scales (including Automatic Bagging), Screens (Wire and Cloth), Screening Machinery, Separators (see types), Shipping Units, Silent Chain Drives, Steel Plate Construction, Superphosphate Carriers, Superphosphate Mixers, Tailing, Knife (Pulverizers), Tankage Machinery, Wire Cloth, Vibrating Screens, Air Separators.

Summers Fertilizer Co., Inc., Totman Bldg., 210 E. Redwood St., Baltimore, Md.

Manufacturers of Sulphuric Acid Superphosphate, Sulphate of Ammonia, Ammoniated Base Goods, High Grade Fertilizers.

**Synthetic Nitrogen Products Corp.
285 Madison Ave., New York 17,
N. Y.**

Cal-Nitro Fertilizer Compound 20.5% Nitrogen; Muriate of Potash; Sulphate of Potash.

**Tennessee Corporation
617-29 Grant Bldg., (Mailing Address, P. O. Box 2205)
Atlanta, Ga.**

Manufacturers of Ammoniated Superphosphate, Complete Fertilizers, Detergents, Fertilizer Materials, Fungicides, Mixed Fertilizers, Sulphuric Acid, Superphosphates, Trace Elements, Wetting Agents, Mineral Salts, Manganese Sulphate, Zinc Sulphate, Copper Sulphate, Ferric Iron Sulphate, Copper Carbonate; Mineral Mixtures of Manganese, Copper, Zinc, Iron, Magnesium Borax, made to meet fertilizer manufacturers own specifications.

**Texas Gulf Sulphur Company, Inc.
Offices: 75 East 45th St.,
New York 17, N. Y.**

Producing Units: Newgulf, Moss Bluff, Spindletop, Texas; Worland, Wyoming. Producers of Crude Sulphur.

**United Fertilizer Company,
Carrollville, Wisc.**

Manufacturers of Hyrite Tankage, Natural Organic Nitrogen, Nitrogenous Tankage and Animal Ammoniate.

United States Potash Co., 30 Rockefeller Plaza, New York 20, New York.

Potash, Potash Salts, Manure Salts, High Grade Muriate of Potash 62/63% K₂O; Granular Muriate of Potash 59/61% K₂O.

United States Steel Corporation, Coal Chemical Sales Division, 525, William Penn Place, Pittsburgh 30, Pa. Coal Chemical Sales Division offices located in Pittsburgh, Pa., New York, N. Y., Cleveland, Ohio, Chicago, Ill., Birmingham, Ala., & San Francisco, Calif.

U. S. S. Ammonium Sulphate is manufactured at the following United States Steel Corporation plants: Clairton, Pa.; Cleveland, Ohio; Duluth, Minn.; Fairfield, Ala.; Fairless Hills, Pa.; Gary, Ind.; Geneva, Utah; Ironton, Utah; Joliet, Ill.; Lorain, Ohio.

Universal Detergents, Inc.

1825 East Spring St.,
P. O. Box 4091, East Long Beach
Station, Long Beach 6, California
Room 404, Danciger Bldg., Ft.
Worth, Texas, P. O. Box 1712,
Grand Central Station, New York
17, N. Y.

Wetting agents, surfactants, con-
ditioners, emulsifiers, cleaners,
detergents, aromatic hydrocar-
bon solvents.

Werthan Bag Corporation

1400 Eighth Avenue North
Nashville 1, Tennessee

Manufacturers of New Cotton,
Burlap and Multiwall Paper
Bags, and Knotless Sewing
Thread for Bag Closing. Dealers
in Used Cotton, Burlap and Mu-
ltiwall Paper Bags and Sail
Twine.

**Wiley & Company, Inc., Calvert and
Read Streets, Baltimore 2, Md.**

Analytical and Consulting
Chemists.

**Willingham-Little Stone Company
1201 Healey Building Atlanta 3,
Ga.**

Dolomite Limestone, in bulk and
bagged.

**Wilson and Toomer Fertilizer Com-
pany, 1611 Talleyrand Ave., Draw-
er 4459, Jacksonville 1, Fla.**

Sulphuric Acid, Superphos-
phate, Fertilizer Materials, Agri-
cultural Insecticides, Mixed
Fertilizers.

**Woodward and Dickerson, Inc. 1400
South Penn Square, Philadelphia
2, Pa.**

Agricultural Insecticide, Agri-
cultural Nitrogen Products, Am-
moniates—(Brokers) Ammoniates—(Exporters and Importers)
Ammoniated Basegoods, Am-
moniated Phosphates, Ammonium
Phosphates, Base Goods,
Bone Meals, Complete Fertiliz-
ers, Di-Calcium phosphate,
Feeding and Fertilizer Ma-
terials, Feed Stuffs, Fertilizer

& Agricultural Chemicals,
Fertilizer Materials (Dealers)
Fertilizer Materials—(Exporters
and Importers) Fish Scrap—
(Brokers) Fish Meal, Liver
Meal, Muriate of Potash,
Natural Organic Nitrogen, Ni-
trogenous Organic Material, Ni-
trogenous Tankage, Phosphate
Rock, Potash Salts—(Importers)
Rough Ammonias, Steamed
Bone Meal, Sulphate of Am-
monia, Superphosphate, Triple
Superphosphate.

**Worthington Corporation: Industrial
Mixer Division, Plainfield, N. J.
Dept. F-2.**

Industrial Mixers for Fertil-
izers—Batch, Dry and Rotary;
air compressors (all types);
pumps (all types).

**Zonolite Company, Terra-Lite Divi-
sion, 135 S. Lasalle St., Chicago
3, Ill.**

1. Terra-Lite Conditioner
2. Carrier for Agricultural
Chemicals

FERTILIZERS *and* FERTILIZER RAW MATERIALS

Phosphate Rock**Potash****Superphosphates****Nitrogenous Fertilizers****Mixed Fertilizers****Agricultural Chemicals****Seeds and Feeds**

INTERNATIONAL ORE & FERTILIZER CORP.

500 Fifth Avenue

New York 36, N. Y.

Planning a fertilizer plant?

1

MODERN LABORATORIES have both miniature and full-scale facilities—offer free testing service on a few pounds or full carloads of your material. Link-Belt will also lease equipment for work in your plant.



2

PILOT PLANT and testing station, operated in cooperation with a leading university, continually works to find new ways to improve commercial fertilizer... adapt laboratory procedures to plant conditions.



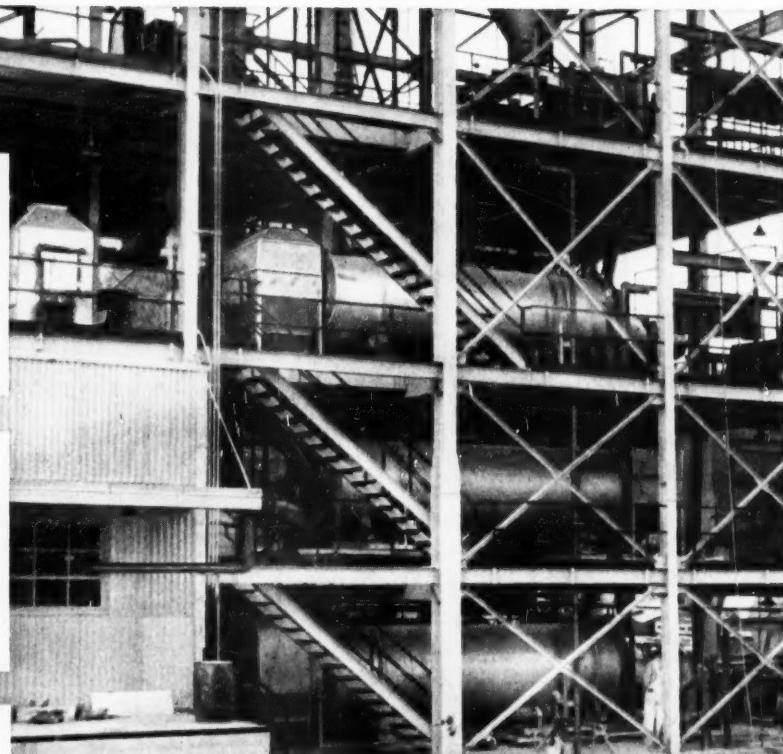
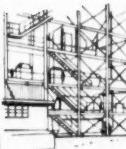
3

ENGINEERING based on broad, practical experience, assures better equipment that often permits use of lower cost ingredients. Other developments have reduced processing time, saved storage space.



4

LINK-BELT EQUIPMENT This includes dryers, coolers, granulating drums, disintegrators, continuous mixers, ammoniators, roll crushers, all types of conveyors and elevators, vibrating screens and a complete line of chains and power transmission machinery.



Ammonium nitrate plant, shown before completion of building, reveals variety of Link-Belt equipment used in conveying, drying, cooling, mixing, elevating and screening at large Southern chemical plant.

**LINK-BELT offers a 6-point "turn-key" service
--a unified responsibility for complete plants**

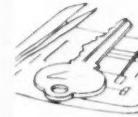
5

SKILLED ERECTION CREWS can be furnished by Link-Belt. Link-Belt experience includes dry-mix, superphosphate, nitrophosphate, ammonium nitrate, ammonium sulphate, urea, granulation and other plants.



6

SATISFACTORY PERFORMANCE When you rely on Link-Belt as a single source, Link-Belt accepts responsibility for placing your plant in full operating readiness. We will also supervise modernizing existing plants.



To find out how this unique "turn-key" service can serve you, get in touch with the Link-Belt office near you. Our engineers will work directly with you or your consultants... help you produce better fertilizer at lower cost.

Write for new 16-page Book No. 2459

LINK-BELT

CONVEYING AND PROCESSING EQUIPMENT

PRODUCTS DIRECTORY

For complete addresses of all firms listed in Products Directory refer to complete listings for these companies in the Buyers Directory starting page 129; or their advertisement in this issue. (See advertisers index page 164.)

ACID HANDLING & DILUTING EQUIPMENT FOR ACIDULATING PLANTS

Fertilizer Engineering & Equipment Co.

Southern Lead Burning Co.

ACID HANDLING PRODUCTS

National Lead Company, Atlanta Branch

ACID PLANT CONSTRUCTION

See Engineers—Chemical and Industrial.

ACID PUMPS

Fertilizer Engineering & Equipment Co.

Southern Lead Burning Co.

ACID TOWERS

Chemical Construction Corporation John J. Harte Co.

ACID VALVES

See Valves.

ACIDULATED FISH (See Fish Scrap)

ACIDULATING UNITS

The Atlanta Utility Works Fertilizer Engineering & Equipment Co.

John J. Harte Co.

Stedman Foundry & Machine Co., Inc. Subsidiary of United Engineering & Fdy. Co.

Sturtevant Mill Co.

ACIDULATORS

Fertilizer Engineering & Equipment Co.

Sturtevant Mill Co.

AERATING EQUIPMENT

The A. J. Sackett and Sons Co.

AGRICULTURAL INSECTICIDES

American Agricultural Chemical Company

American Cyanamid Co., Agricultural Chemicals Division

Ashcraft-Wilkinson Co.

Commercial Solvents Corporation

Mathieson Chemical Corp.

Wilson & Toomer Fertilizer Co.

Woodward & Dickerson, Inc.

AGRICULTURAL LIME (Limestone)

Ashcraft-Wilkinson Co.

Baker & Bro., H. J.

Bradley & Baker

Keim, Samuel D.

Longview Lime Corp.

McIver & Son, Alex. M.

Robertson Chemical Corp.

Woodward & Dickerson, Inc.

AIR COMPRESSORS

Fertilizer Engineering & Equipment Co.

Worthington Corporation Industrial Mixer Division

AIR SEPARATORS

Abbe Engineering Company, Inc.

Kent Mill Division

Sturtevant Mill Company

ALUM (LIQUID)

Northern Chemical Industries, Inc. (Subsidiary of Summers Fert. Co.)

AMMONIA—ANHYDROUS

American Cyanamid Co., Agric. Chemicals Div.

Commercial Solvents Corp., Agric. Division

Lion Oil Company

Mathieson Chemical Corporation

Nitrogen Division, Allied Chemical

& Dye Corporation
Nitrogen Products, Inc.
Spencer Chemical Co.

AMMONIATES

American Agricultural Chemical Co., The

American Cyanamid Company Agricultural Chemicals Division

Armour Fertilizer Works

Ashcraft-Wilkinson Co.

International Minerals & Chemical Corp.

Lion Oil Co.

Mathieson Chemical Corporation

Nitrogen Products, Inc.

Royster Guano Co., F. S.

United Fertilizer Company

AMMONIATES

(Brokers, Importers, Exporters)

Ashcraft-Wilkinson Co.

Baker & Bro., H. J.

Bradley & Baker

Keim, Samuel D.

McIver & Son, Alex. M.

Nitrogen Products, Inc.

Synthetic Nitrogen Products Corp.

Woodward & Dickerson, Inc.

AMMONIA LIQUOR

Lion Oil Co.

Mathieson Chemical Corporation

Nitrogen Division, Allied Chemical

& Dye Corporation

Nitrogen Products, Inc.

AMMONIATING EQUIPMENT

Ammoniators

Chemical Construction Corp.

Link Belt Co.

AMMONIUM CARBONATE

The Amer. Agric. Chem. Co.

AMMONIATED BASE GOODS

Mathieson Chemical Corporation

Summers Fertilizer Co., Inc.

AMMONIATED PHOSPHATES

Ashcraft-Wilkinson Co.

Woodward and Dickerson, Inc.



NATIONAL LEAD COMPANY

ATLANTA BRANCH

CHEMICAL SHEET LEAD

LEAD PIPE

BURNING BAR

HARD LEAD AND LEAD LINED EQUIPMENT

Direct Inquiries to: P. O. Box "B", Station "C", Atlanta, Ga.

AMMONIATED SUPERPHOSPHATE

Alex. M. McIver & Son
Mathieson Chemical Corporation
Northern Chemical Industries, Inc.,
(A subsidiary of Summers Fert.
Co., Inc.)
Southern Fertilizer & Chemical Co.
Southern States Phosphate & Fert.
Co.
Tennessee Corp.

AMMONIATION SYSTEMS

Fertilizer Engineering & Equipment
Co.

AMMONIUM FLUOSILICATE

The American Agric. Chem. Co.

AMMONIUM NITRATE

American Cyanamid Company,
Agricultural Chemicals Division
Ashcraft-Wilkinson Co.
H. B. Baker & Bro.
Commercial Solvents Corp.
International Ore & Fertilizer Corp.
Lion Oil Co.
Alex. M. McIver & Son
Monsanto Chemical Company
Nitrogen Division, Allied Chemical
& Dye Corporation

Spencer Chemical Co.
Woodward & Dickerson, Inc.

AMMONIUM NITRATE—AMMONIA SOLUTIONS

Lion Oil Co.
Monsanto Chemical Company
Nitrogen Division, Allied Chemical
& Dye Corporation

AMMONIUM NITRATE PLANTS

Chemical Construction Corp.
Link-Belt Co.

AMMONIUM PHOSPHATE

International Ore & Fert. Corp.
Mathieson Chemical Corporation
Monsanto Chemical Company
Synthetic Nitrogen Products Corp.
Woodward & Dickerson, Inc.

AMMONIUM SULFATE

See Sulphate of Ammonia

AMMONIUM SULPHATE PLANTS

Chemical Construction Corp.
John J. Harte Company
Link-Belt Co.

ANHYDROUS AMMONIA

See Ammonia—Anhydrous

AQUA AMMONIA

Lion Oil Co.

Mathieson Chemical Corporation
Nitrogen Division
Allied Chemical & Dye Corp.
Spencer Chemical Co.

ARCHITECTS & ENGINEERS

The Atlanta Utility Works
Fertilizer Engineering & Equipment
Co.

John J. Harte Co.
A. J. Sackett & Sons Co., The

ARSENATE OF LEAD

The American Agric. Chem. Co.

ASSEMBLY HOPPER UNITS

Atlanta Utility Works

AUTOMATIC CONTROL EQUIPMENT

Fertilizer Engineering & Equipment
Co.

The A. J. Sackett and Sons Co.

AUTOMATIC MIXING UNITS

Fertilizer Engineering & Equipment
Co.

AUTOMATIC PACKAGING EQUIPMENT

The A. J. Sackett and Sons Co.

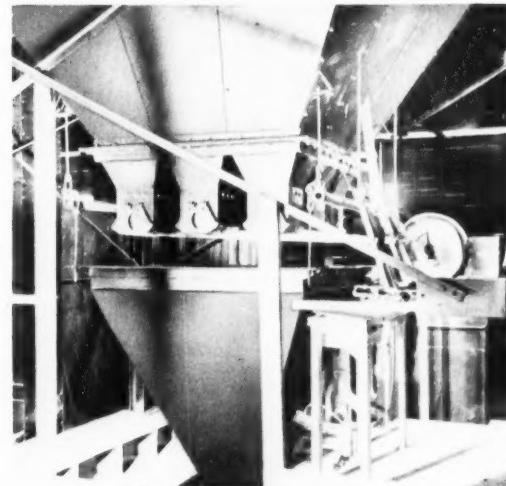
AUTOMATIC WEIGHING MACHINES

See Bagging Machines

FERTILIZER MACHINERY

DK Fertilizer Machinery has been designed to save you, the operator, time, money and manpower in the manufacture of fertilizer. Each machine is designed to perform a specific operation efficiently and economically and is readily adaptable to any size plant.

- **HOPPER SYSTEMS**
- **AUTOMATIC SOLUTION TANKS**
- **SHAKER SCREENS**
- **PULVERIZERS**
- **CLOD BREAKERS**
- **ELEVATORS**
- **CONVEYORS**



*Designers, Engineers and Manufacturers of Complete
Fertilizer Plants and Equipment*

DAVIDSON-KENNEDY CO.

ATLANTA,



GEORGIA

**THE SHIELD
THAT HELPS
PROTECT
PRODUCTION**

It's  *for* **CAL-NITRO**
TRADE MARK REG. U.S. PAT. OFF.

Cal-Nitro is again available in the free-flowing, fast-acting, long-lasting form that gave it pre-eminence as "the Perfect Topdresser."

This outstanding nitrogen fertilizer compound contains 20.5% Nitrogen and at least 20% Calcium Oxide equivalent—to supply crops with needed plant food economically.

Cal-Nitro is shipped in 100 lb. bags.

It's  *for* **POTASH**
MURIATE: 58% - 60% K₂O
SULPHATE: 90% - 95% K₂SO₄
From Western Germany

SYNTHETIC NITROGEN PRODUCTS CORPORATION
285 Madison Avenue, New York 17, N. Y.

BABBITT METALS
National Lead Co., Atlanta Branch

BACTERIOLOGIST
Wiley and Company

BAG CLOSING TWINE & THREAD
Bemis Bro. Bag Co.
Fulton Bag & Cotton Mills
Werthan Bag Corp.

BAGS
Albemarle Paper Mfg. Co., Inc.
International Paper Co., Bagpak
Division

Bemis Bro. Bag Company
Equitable Paper Bag Co., Inc.
Fulton Bag & Cotton Mills
Hammond Bag & Paper Co.
The Jaite Company
Kraft Bag Corporation
Alex. M. McIver & Son
Raymond Bag Co.
St. Regis Sales Corporation
Werthan Bag Corporation

BAGS (BURLAP)
Bemis Bro. Bag Co.
Fulton Bag & Cotton Mills
Werthan Bag Corp.

BAGS (BURLAP, USED)
Fulton Bag & Cotton Mills
Werthan Bag Corp.

BAGS (COTTON)
Bemis Bro. Bag Co.

Fulton Bag & Cotton Mills
Werthan Bag Corp.

BAGS (COTTON, USED)
Fulton Bag & Cotton Mills
Werthan Bag Corp.

**BAGS (WATERPROOF
PAPER-LINED TEXTILE BAGS)**
Bemis Bro. Bag Co.
Fulton Bag & Cotton Mills
Werthan Bag Corp.

BAGS (MULTIWALL)
Albemarle Paper Mfg. Co., Inc.

International Paper Co., Bagpak
Division
Bemis Bro. Bag Co.
Equitable Paper Bag Co., Inc.
Fulton Bag & Cotton Mills
Hammond Bag & Paper Company
The Jaite Company
Kraft Bag Corp.
Raymond Bag Company
St. Regis Sales Corp.
Werthan Bag Corp.

BAGS (TRANSPARENT FILM)
Fulton Bag & Cotton Mills

BAG HOLDERS
Baldwin Foundry & Machine Corp.,
(Formerly Spalding Foundry Co.)

BAG PRINTER (Multiwall)
Industrial Marking Equipment Co.

BAG SEWING EQUIPMENT
Bagpak Division, International Paper
Company

BAG STRINGS
See Twine

BAGGING
Fulton Bag & Cotton Mills

BAGGING MACHINES
(Including Automatic Scales)
Atlanta Utility Works, The
Automatic Scale Co., Inc.
Bagpak Division, International Paper
Company
Davidson-Kennedy Co.
Fertilizer Engineering & Equipment
Company

Sackett & Sons Co., The A. J.
St. Regis Sales Corporation
Stedman Fdy. & Mach. Co., Inc.,
Subsidiary of United Engr. &
Fdy. Co.
Sturtevant Mill Company

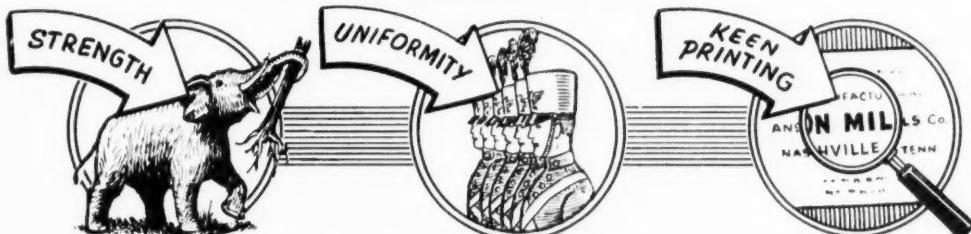
BAGGING UNITS
The Atlanta Utility Works
Fertilizer Engineering & Equip. Co.

BASE GOODS
Ashcraft-Wilkinson Co.
Baker & Bro., H. J.
Mathieson Chemical Corporation
McIver & Son, Alex. M.

WERTHAN

"BETTER BUILT BAGS"

BURLAP AND COTTON BAGS — PRINTS AND REGULAR
MULTIWALL BAGS—SEWN AND PASTED—VALVE AND OPEN MOUTH
ALSO PROCESSERS OF USED BAGS



WERTHAN BAG CORPORATION

NASHVILLE 1, TENNESSEE

FACTORIES: NASHVILLE - NEW ORLEANS

Northern Chemical Industries
 Pringle & Co., A. F.
 Sackett & Sons Co., A. J.
 Southern States Phosphate & Fert.
 Co.
 Stephens-Adamson Mfg. Co.
 Sturtevant Mill Co.
 Summers Fertilizer Co.
 Woodward & Dickerson, Inc.

BATCHING HOPPERS
 Fertilizer Engineering & Equipment
 Co.
 Stedman Foundry & Machine Co.
 (Subsidiary of United Engineering
 & Foundry Company)

BASING UNITS
 The Atlanta Utility Works
 Fertilizer Engineering & Equip. Co.
 A. J. Sackett & Sons Co., The

BATCH MIXERS
 The Atlanta Utility Works
 Fertilizer Engineering & Equip. Co.
 Gruendler Crusher & Pulverizer Co.
 A. J. Sackett & Sons Co.
 Stedman Foundry & Machine Co.,
 Inc. Subsidiary of United Engi-
 neering & Fdy. Co.
 Sturtevant Mill Co.
 Worthington Corporation: Industrial
 Mixer Division

BEARINGS
 Baldwin Foundry & Machine Corp.
 Continental Gin Co.
 Link-Belt Co.
 A. J. Sackett & Sons Co.
 Stephens-Adamson Mfg. Company

BELT CONVEYORS
 See Conveying Machinery

BELTING
 Fertilizer Engineering & Equip. Co.
 Link-Belt Co.
 Sturtevant Mill Company

BENZOL
 Nitrogen Products, Inc.

BINS
 J. C. Corrigan Co., Inc.
 Fertilizer Engineering & Equip. Co.
 Link-Belt Co.

BIN VALVES
 The Atlanta Utility Works
 J. C. Corrigan Co., Inc.
 Fertilizer Engineering & Equip. Co.
 Link-Belt Co.
 Stephens-Adamson Mfg. Co.

BOILERS
 R. D. Cole Mfg. Co.

BLOOD—(Brokers)
 Ashcraft-Wilkinson Co.
 H. J. Baker & Bro.
 Bradley & Baker
 Alex. M. McIver & Son
 Woodward & Dickerson, Inc.

BLUE LUPINE SEED MEAL
 Alex. M. McIver & Son

BONE ASH
 The American Agric. Chem. Co.

BONE BLACK—(Pigment)
 American Agricultural Chemical
 Co.

BONE GRINDERS
 Gruendler Crusher & Pulverizer Co.
 Raymond Pulverizer Div. Combustion
 Engineering, Inc.

BONE MEAL
 American Agric. Chemical Co.
 Ashcraft-Wilkinson Co.
 H. J. Baker & Bro.
 Alex. M. McIver & Son
 Woodward and Dickerson, Inc.

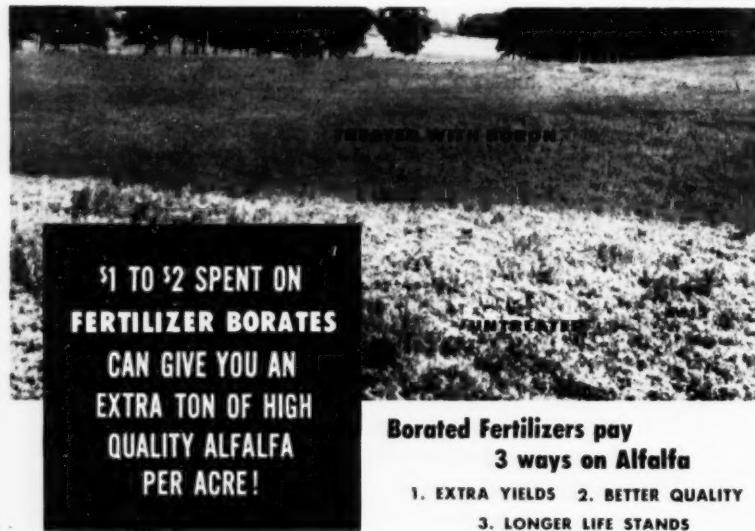
BONE MILLS
 Raymond Pulverizer Div. Combustion
 Engineering, Inc.
 Stedman Foundry & Machine Co.,
 Inc. Subsidiary of United Engineering
 and Fdy. Co.

BONE OIL
 The Amer. Agric. Chem. Co.

BORAX
 American Potash & Chemical Corp.
 Pacific Coast Borax Co.
 Tennessee Corp.

BORIC ACID
 American Potash & Chemical Corp.
 Pacific Coast Borax Co.

BOWL (Pulverized Fuel)
 Raymond Pulverizer Div. Combustion
 Engineering, Inc.



**Borated Fertilizers pay
 3 ways on Alfalfa**

1. EXTRA YIELDS
2. BETTER QUALITY
3. LONGER LIFE STANDS

tent is held to about 24% (5 mols) this material saves you money in costs of transportation, storage, handling, etc. Only 83 lbs of FERTILIZER BORATE HIGH GRADE is required for each 100 lbs. borax guaranteed in formulated mixtures. Available in two particle sizes; a fine mesh for adding to mixed fertilizers . . . a coarse mesh for direct application. County Agents or State Experimental Stations should be consulted for detailed recommendations.

Yes, Boron means bigger crops of better quality! Alfalfa responds so readily to Boron that, in some cases, yield per acre is doubled. To put Boron back into the soil, use FERTILIZER BORATE—HIGH GRADE . . . it's the low-cost fertilizer borax, rich in Boron. (Contains approximately 12½% borax equivalent).

FERTILIZER BORATE—HIGH GRADE, is an ore concentrate developed especially for fertilizer use. Because its water con-

*Write today for literature and quotations on
 Fertilizer Borate—The Low-Cost Fertilizer Borax*



MANUFACTURERS OF FAMOUS 20-MULE TEAM PACKAGE PRODUCTS

PACIFIC COAST BORAX CO.

DIVISION OF BORAX CONSOLIDATED LIMITED

100 PARK AVENUE NEW YORK 17, N.Y. 2295 LUMBER STREET CHICAGO 16, ILLINOIS 620 SHATTUCK PLACE LOS ANGELES 5, CALIF.

AGRICULTURAL OFFICES
 • P. O. Box 229
 East Alton, Illinois
 • 1st National Bank Bldg.
 Auburn, Alabama

BOX CAR LOADERS
Fertilizer Engineering & Equip. Co.
Stephens-Adamson Mfg. Co.

BRAKES
Dings Magnetic Separator Co.

BRIMSTONE
See Sulphur

BROKERS
Ashcraft-Wilkinson Co.
H. J. Baker & Bro.
Bradley & Baker
Samuel D. Keim
Alex. M. McIver & Son
Nitrogen Products, Inc.
Woodward & Dickerson, Inc.

BUCKET ELEVATORS (STEEL)
The Atlanta Utility Works
J. C. Corrigan Co., Inc.
Fertilizer Engineering & Equipment
Company
Link-Belt Co.
The A. J. Sackett & Sons Co.
Stephens-Adamson Mfg. Co.
Stedman Foundry & Machine Co.
(Subsidiary of United Engineering
& Foundry Company)

BUCKETS
The Atlanta Utility Works
Continental Gin Co.
J. C. Corrigan Co., Inc.

A. J. Sackett & Sons Co.
Stephens-Adamson Mfg. Co.
Sturtevant Mill Co.

BUCKET LOADERS
Contractors Machinery Co., Inc.

CAGE MILLS
Atlanta Utility Works
Stedman Foundry & Machine Co.,
Inc. Subsidiary of United Engi-
neering and Fdy. Co.

CALCIUM AMMONIUM NITRATE
Ashcraft-Wilkinson Co.
H. J. Baker and Bro.
International Ore & Fert. Corp.

CALCIUM ARSENATE
The Amer. Agric. Chem. Co.

CALCIUM CYANAMID
American Cyanamid Company
Agricultural Chemicals Division
H. J. Baker & Bro.

CALCIUM PHOSPHATE
American Agricultural Chemical Co.
Monsanto Chemical Company

CALCIUM NITRATE
Bradley & Baker
International Ore & Fert. Corp.

CAL-NITRO
Synthetic Nitrogen Products Corp.

CAR PULLERS
Fertilizer Engineering & Equip. Co.
Link-Belt Co.
Stephens-Adamson Mfg. Co.

CAR UNLOADERS
J. C. Corrigan Company
Link-Belt Co.

CARRIERS (See Diluents)
CARTS —(Wood & Steel)
The Atlanta Utility Works
Chattanooga Wheelbarrow Co.

CASINGS—(Elevator, Steel)
J. C. Corrigan Co., Inc.
Fertilizer Engineering & Equip. Co.
Link-Belt Co.

CASTINGS—(Chemical, Gray Iron)
Link-Belt Co.
Stedman Foundry & Machine Co.,
Inc. Subsidiary of United Engi-
neering & Fdy. Co.

CASTINGS
Link-Belt Co.

CASTOR MEAL
See Rape & Castor Meal

CENTRALIZED CONTROL
SYSTEMS
Fertilizer Engineering & Equip. Co.
The A. J. Sackett & Sons Co.

ALEX. M. McIVER

Established 1915

H. H. McIVER

ALEX. M. McIVER & SON

Brokers

SPECIALIZING

- SULPHURIC ACID
- SULPHATE OF AMMONIA
- BLOOD AND FERTILIZER TANKAGE
- PHOSPHATE ROCK
- FERTILIZER CONDITIONERS
- POTASH
- CASTOR POMACE
- CALCIUM AMMONIUM NITRATE
- AMMONIATED BASE AND SUPERPHOSPHATE
- GROUND RICE HULLS

Representatives: MORGAN BROTHERS BAG COMPANY, INC.

BURLAP BAGS — PAPER BAGS — COTTON BAGS

GROUND COTTON BUR ASH, 38/42% K-O Potash

Peoples Office Building

Phones: — L.D. 921 - 922

Charleston, S. C.

CARTS • TRUCKS WHEELBARROWS

CHATTANOOGA WHEELBARROW CO.

CHAINS

Atlanta Utility Works
Continental Gin Company
Fertilizer Engineering & Equip. Co.
Link-Belt Co.

CHAIN—(Conveyor, Elevator and Power Transmission)

Atlanta Utility Works
Continental Gin Co.
Fertilizer Engineering & Equip. Co.
Link-Belt Co.

CHAIN BELTING

See Belting

CHAMBER PLANT SERVICE

John J. Harte Company
Southern Lead Burning Company

CHEMICAL PLANTS

Chemical Construction Corporation
John J. Harte Co.
General Industrial Development Corporation

CHEMICAL PLANT EQUIPMENT

Atlanta Utility Works
Davidson-Kennedy Company
Fertilizer Engineering & Equip. Co.
General Industrial Development Corporation
Lakeland Engineering Service, Inc.
Raymond Pulverizer Division, Combustion Engineering, Inc.
A. J. Sackett & Sons Company
Stedman Foundry & Machine Co., Inc.
Subsidiary of United Engineering & Fdy. Co.
Sturtevant Mill Company

CHEMISTS—(Analytical & Consulting)

Gaseyne & Co., Inc.
Houston Laboratories
Law & Company
Morris Testing Laboratories
Shuey & Co., Inc.
Wiley & Co., Inc.

CHUTES

J. C. Corrigan Company, Inc.
Fertilizer Engineering & Equip. Co.
Link-Belt Co.

CLEANERS AND DETERGENTS

American Agricultural Chemical Company
Universal Detergents, Inc.

CLOD BREAKERS

Atlanta Utility Works

Fertilizer Engineering & Equipment Company

Stedman Foundry & Machine Co., Inc.
Subsidiary of United Engineering & Fdy. Co.
Sturtevant Mill Co.

CLUSTER HOPPERS

The Atlanta Utility Works
Davidson-Kennedy Co.
Fertilizer Engineering & Equip. Co.

CLUTCHES

Dings Magnetic Separator Co.

COMPLETE FERTILIZERS

American Agricultural Chemical Co.
Armour Fertilizer Works
International Minerals & Chemical Corp.

Mathieson Chemical Corporation
Planters Fertilizer & Phosphate Co.
A. F. Pringle & Co., Inc.

Robertson Chemical Corporation
Royster Guano Co., F. S.
Southern Fertilizer & Chemical Co.
Southern States Phos. & Fertilizer Co.

Tennessee Corp.

Woodward and Dickerson, Inc.

COMPLETE FERTILIZER PLANTS

The Atlanta Utility Co.
Chemical Construction Corporation
Davidson-Kennedy Co.
Fertilizer Engineering & Equip. Co.
General Industrial Development Corporation

John J. Harte Company

Lakeland Engineering Associates, Incorporated

Link-Belt Co.

A. J. Sackett & Sons Co.

Stedman Foundry & Machine Co., Inc.
Subsidiary of United Engineering and Fdy. Co.
Sturtevant Mill Co.

COMPLETE MIXING UNITS

The Atlanta Utility Works
Fertilizer Engineering & Equip. Co.
Link-Belt Co.

COMPLETE SUPERPHOSPHATE PLANTS

The Atlanta Utility Works
Fertilizer Engineering & Equip. Co.
John J. Harte Company

Link-Belt Co.

A. J. Sackett & Sons Co., The

COMPOUNDS—(Fertilizer)

See Fertilizer Compounds

CONDITIONERS

See Fillers & Dryers

CONSTRUCTION ENGINEERS

See Engineers

CONSULTING ENGINEERS

See Engineers

CONTACT SULPHURIC ACID PLANTS

Chemical Construction Corp.

CONTINUOUS ACIDULATING PROCESS

The Atlanta Utility Works

A. J. Sackett & Sons Co., The

CONTINUOUS AMMONIATING EQUIPMENT

Fertilizer Engineering & Equip. Co.
A. J. Sackett & Sons Co., The

CONTROLS, (Starters, Switches)

Fertilizer Engineering & Equipment Company

CONVEYING MACHINERY

The Atlanta Utility Works

Continental Gin Co.

J. C. Corrigan Company, Inc.

Fertilizer Engineering & Equip. Co.
Link-Belt Co.

A. J. Sackett & Sons Company

Stephens-Adamson Mfg. Co.

Stedman Foundry & Machine Co., Inc.
Subsidiary of United Engineering & Fdy. Co.

Sturtevant Mill Co.

CONVEYOR SYSTEMS

Atlanta Utility Works

Continental Gin Co.

J. C. Corrigan Co., Inc.

Fertilizer Engineering & Equip. Co.
Link-Belt Co.

Stephens-Adamson Mfg. Co.

COOLERS—(Rotary)

R. D. Cole Mfg. Co.

Fertilizer Engineering & Equip. Co.
Link-Belt Co.

A. J. Sackett & Sons Co.

COPPER CARBONATE

Tennessee Corporation

SHUEY & COMPANY, INC.

Specialty: Analysis of Fertilizers, fertilizer materials, feeds, minerals, waters and soils. Official Chemists for Florida Hard Rock Phosphate Export Association, Official weighers and Samplers for the National Cottonseed Products Association at Savannah; also Official Chemists for National Cottonseed Products Association.

115 E. Bay Street, Savannah, Georgia

SAMUEL D. KEIM

Feeding and Fertilizer Materials Since 1898

LIBERTY TRUST BLDG. PHILADELPHIA 7, PA.

HOUSTON LABORATORIES

Estab. 1904

*Analytical And Consulting Chemists
Fertilizers, Feeds, Industrial Materials*

311 Chenevert Street. P. C. Box 132
Houston 1, Texas

Morris Testing Laboratories

Analysts and Consulting Chemists

P. O. BOX 803
MACON, GA.

CLINTON MORRIS, B. S.
Manager

MERLE E. MORRIS, B. S.
Secretary & Treasurer

LAKELAND ENGINEERING ASSOCIATES, INC.

Design and Construction Supervision of
Industrial Plants

Lakeland, Florida

Cut Production Costs—

Speed up your plant with
**ATLANTA UTILITY
FERTILIZER MACHINERY**

Fertilizer Mixing Systems Revolving Screens Mixing Plows Clod Breakers

Elevators Fertilizer Shakers Cage Mills Batch Mixers

Write Today for Descriptive Folder

ATLANTA UTILITY WORKS
EAST POINT, GA.

LAW & COMPANY

Founded 1903

FERTILIZER CHEMISTS

Three Convenient Laboratories

P. O. Box 1558, Atlanta, Ga.
P. O. Box 789
Montgomery, Ala.

P. O. Box 629
Wilmington, N. C.

WILEY & CO., INC.

ANALYTICAL & CONSULTING CHEMISTS

CALVERT & READ STREETS

BALTIMORE 2, MD.

A NEW AND TRULY REVOLUTIONARY

CONDITIONER

NOW Available the Year Around!

Before You Contract for Your Conditioner Needs, Investigate Terra-Lite* Brand Vermiculite

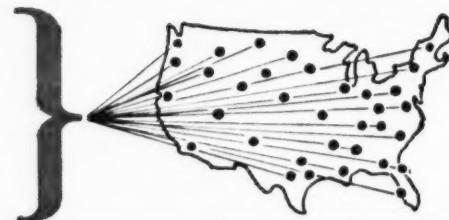
**Insure Your Production Schedule!
Eliminate Costly Shipping Delays!
Prompt Delivery from Any One of
36 Plants Across the Nation**

Across the country manufacturers are turning to Terra-Lite brand vermiculite Conditioner to help solve their production problems, for with this free-flowing mineral, manufacturers can suit *their own schedule of deliveries*, month by month, to meet *their needs throughout the year*. Your production schedule can be maintained, if you use TERRA-LITE, for it is delivered promptly from a plant near you, at uniform high quality and a stable price!

Terra-Lite Conditioner is a mineral conditioner processed specifically for conditioning your fertilizer. It is not a waste or by-product.

Terra-Lite Conditioner is highly absorbent and contributes maximum flowability to the fertilizer, thus helping to eliminate caking. In addition Terra-Lite is absolutely fireproof, eliminating extra fire hazards in the plant.

Before you contract for next season's conditioner requirement, be sure you have all the facts about Terra-Lite brand vermiculite Conditioner. Send coupon below for free literature, or call, write or wire



ATTENTION INSECTICIDE MANUFACTURERS

Insecticide Grades of Terra-Lite are now being used by leading manufacturers as a carrier for active chemicals. Available in granular or dust form. Ranks high in flowability and absorptive qualities. Incombustible. NO grinding problems.

WRITE FOR FULL DETAILS

**WRITE
TODAY**

Terra-Lite Division of
ZONOLITE COMPANY
135 S. LaSalle St., Chicago 3, Illinois
*Terra-Lite is a registered trade mark.

Terra-Lite Division, Dept. CF-3
ZONOLITE COMPANY
135 S. LaSalle St., Chicago 3, Illinois

Please send me at once, free information on
Terra-Lite for Conditioner; for Pesticide Use.

Name.....
Address.....
City..... Zone..... State.....

Terra-Lite
Division of
ZONOLITE COMPANY
135 S. LaSalle Street
Chicago 3, Illinois

FERTILIZER ENGINEERING & EQUIPMENT CO.



Free Estimates

BRANCHES

NEW JERSEY — FLORIDA

MEMORIAL DRIVE • GREEN BAY, WISCONSIN

COPPER SULPHATE

Tennessee Corp.

COTTONSEED PRODUCTS (Brokers)

Ashcraft-Wilkinson Co.
Alex. M. McIver & Son

CRANES, POWER

Link-Belt Co.

CRUSHING ROLLS

Link-Belt Co.
Sturtevant Mill Co.

CYANAMID

American Agricultural Chemical Co., The
American Cyanamid Company
Agricultural Chemicals Division
(Producer)

DEFOLIANTS

American Cyanamid Co., Agric. Chemicals Div.

Mathieson Chemical Corporation

DEFLUORINATED PHOSPHATE ROCK

Coronet Phosphate Co., A Division of Smith-Douglass Co., Inc.

DENS AND EXCAVATORS

The Atlanta Utility Works
Fertilizer Engineering & Equip. Co.
Sturtevant Mill Co.

DESIGNERS AND BUILDERS

Fertilizer Engineering & Equip. Co.
General Industrial Development Corporation

John J. Harte Company
Lakeland Engineering Associates,
Incorporated

Link-Belt Co.

A. J. Sackett & Sons Co.

DETERGENTS

The American Agric. Chemical Co.
Tennessee Corp.
Universal Detergents, Inc.

DI-CALCIUM PHOSPHATE

American Agricultural Chemical Co., The
Bradley & Baker
Woodward & Dickerson, Inc.

DILUENTS & CONDITIONERS

Zonolite Co., Terra-Lite Div.

DISODIUM PHOSPHATE

American Agricultural Chemical Co.

DISINTEGRATORS

Link-Belt Co.

A. J. Sackett & Sons Co.

Stedman Foundry and Machine Co.,
Inc. Subsidiary of United Engineering and Fdy. Co.

DOLOMitic LIMESTONE

Willingham-Little Stone Company

DOUBLE SUPERPHOSPHATE

See Superphosphate

DOUBLE SULPHATE OF POTASH —MAGNESIA

International Minerals & Chemical Corp.

DRIED BLOOD

See Blood

DRIED FISH

See Fish Scrap

DRIED SLUDGE

H. J. Baker & Bro.

DRIVES

Continental Gin Co.
Fertilizer Engineering & Equip. Co.
Link-Belt Co.

DRUMS

Link-Belt Co.

DRYERS—(Rotary)

Fertilizer Engineering & Equip. Co.
General American Transportation Corporation
Link-Belt Co.

DRYING MACHINERY

General American Transportation Corporation
Link-Belt Co.

DRY MIXERS

The Atlanta Utility Works
Link-Belt Co.
Sturtevant Mill Co.

DRY MIXING UNITS

The Atlanta Utility Works
Fertilizer Engineering & Equip. Co.
Link-Belt Co.

A. J. Sackett & Sons Co.

DUST COLLECTING EQUIPMENT

Fertilizer Engineering & Equipment Company

A. J. Sackett & Sons Co.

ELECTRIC VIBRATING CONVEYORS

Fertilizer Engineering & Equip. Co.
Link-Belt Co.

ELEVATORS

Atlanta Utility Works

LOUISVILLE DRYERS

Write for catalog and data on fertilizer applications.

GENERAL AMERICAN TRANSPORTATION CORPORATION • CHICAGO

PROCESS EQUIPMENT DIVISION (LOUISVILLE DRYING MACHINERY UNIT)

139 South Fourth Street, Louisville 2, Kentucky



Continental Gin Co.
J. C. Corrigan Co., Inc.
Fertilizer Engineering & Equip. Co.
Link-Belt Co.

Stelman Foundry & Machine Co.,
Inc. Subsidiary of United Engineering & Fdy. Co.
Stephens-Adamson Mfg. Co.
Sturtevant Mill Co.

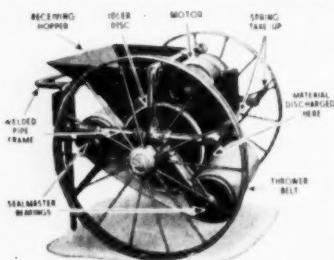
ELEVATOR BUCKETS

Atlanta Utility Works
Continental Gin Co.
J. C. Corrigan Company
Fertilizer Engineering & Equip. Co.
Link-Belt Co.
A. J. Sackett & Sons Co.
Stephens-Adamson Mfg. Co.
Stedman Foundry & Machine Co.,
Inc. Subsidiary of United Engineering & Fdy. Co.
Sturtevant Mill Co.

ELEVATOR BOOTS

Link-Belt Co.
Sturtevant Mill Co.
ELEVATOR CASINGS—(Steel)
The Atlanta Utility Works
J. C. Corrigan Co., Inc.
Fertilizer Engineering & Equip. Co.
Link-Belt Co.
Stedman Foundry & Machine Co.,
Inc. Subsidiary of United Engineering & Fdy. Co.
Sturtevant Mill Co.

S-A BOX CAR LOADERS SAVE TIME, CUT COSTS OF LOADING



S-A BOX CAR LOADER

S-A Box Car Loader stands 3 feet high, weighs 850 pounds and can be wheeled about by one man. A 3 H.P. motor powers the high speed thrower belt and all shafts are mounted on permanently sealed, self-aligning SEALMASTER ball bearings.

WRITE FOR
Car Loader Bulletin 949
Swiveloader Bulletin 1046

EMULSIFIERS (See Wetting Agents)

ENGINEERS (Chemical and Industrial)

Atlanta Utility Works
Davidson-Kennedy Co.
Fertilizer Engineering & Equip. Co.
General Industrial Development Corp.
John J. Harte Co.
Lakeland Engineering Associates, Inc.
Link-Belt Co.
A. J. Sackett & Sons Co.
Stelman Foundry & Machine Co., Inc.
Sturtevant Mill Co.

FANS—(Exhaust) Fertilizer Engineering & Equip. Co.

FEEDERS

Continental Gin Co.
J. C. Corrigan Co., Inc.
Fertilizer Engineering & Equip. Co.
Link-Belt Co.
Stephens-Adamson Mfg. Co.

FEED PRODUCTS

The American Agric. Chemical Co.
Ashcraft-Wilkinson Co.
H. J. Baker & Bro.
Bradley & Baker
International Ore & Fertilizer Corp.

Samuel D. Keim
Tennessee Corp.
Woodward and Dickerson, Inc.
FERRIC IRON SULPHATE
Tennessee Corp.

FERRO-PHOSPHORUS

American Agricultural Chemical Co.
Monsanto Chemical Company

FERTILIZER ANALYSTS

See Chemists—Analytical and Consulting

FERTILIZER COMPOUNDS

Nitrogen Division, Allied Chemical & Dye Corp.
Mathieson Chemical Corporation
Synthetic Nitrogen Products Corp.

FERTILIZER GRANULATING PLANTS

Fertilizer Engineering & Equip. Co.
John J. Harte Company

Link-Belt Co.
Sturtevant Mill Company

FERTILIZER BORATE

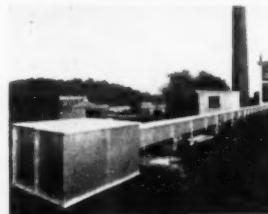
Alex. M. McIver & Son
Pacific Coast Borax Co.
Tennessee Corp.

FERTILIZER EQUIPMENT

The Atlanta Utility Works
Continental Gin Co.
Fertilizer Engineering & Equip. Co.

FERTILIZER CARTS—(See Carts)

MATERIAL HANDLING EQUIPMENT



View of continuous system for conveying and storage of dry rendered tankage.

J. C. CORRIGAN CO. INC.

Conveyors
Engineers — Manufacturers — Erectors
41 Norwood St.
Boston 22, Mass.

GRUENDLER Equipment for Fertilizer Industry . . .

Mixing Plants, Elevators, Tailing Grinders, Bone Meal Grinder, Phosphate Rock Pulverizers with air Separation — Drum Type Mixers, Continuous Mixers, Transmission Machinery and Conveyors.

Gruendler Crusher & Pulverizer Co.
2915-17 N. Market St., St. Louis 6, Mo., U. S. A.

STEPHEN'S-ADAMSON
MFG. CO.
420 Ridgeway Ave.
Aurora, Illinois

SOUTHERN STATES PHOSPHATE and FERTILIZER CO.

SAVANNAH, GEORGIA

Manufacturers of

SULPHURIC ACID, SUPERPHOSPHATE, COMPLETE FERTILIZERS
and
ALL TYPES OF BASE GOODS

EXPORT ORDERS SOLICITED

FERTILIZER MACHINERY

The Atlanta Utility Works
Baldwin Foundry & Machine Corp.
Continental Gin Co.
Fertilizer Engineering & Equip. Co.
Link-Belt Co.
Raymond Pulverizer Division, Combustion Engineering, Inc.
A. J. Sackett & Sons Company
Stedman Foundry & Machine Co., (Subsidiary of United Engineering & Foundry Company)
Sturtevant Mill Co.

FERTILIZER MATERIALS

American Agric. & Chemical Co.
American Potash & Chem. Corp.
Armour Fertilizer Works
Ashcraft-Wilkinson Co.
H. J. Baker & Bro.
Bradley & Baker
Commercial Solvents Corp.
Continental Gin Co.
Davison Chemical Corp.
International Minerals & Chemical Corp.
Lion Oil Co.
Mathieson Chemical Corporation
Nitrogen Div. Allied Chemical & Dye Corp.
Planters Phos. & Fert. Co.
Potash Co. of America.
A. F. Pringle & Co., Inc.
Robertson Chemical Corporation
F. S. Royster Guano Co.
Southern States Phos. & Fert. Co.
Spencer Chemical Co.
Summers Fertilizer Co., Inc.

Synthetic Nitrogen Products Corp.
Tennessee Corp.
Texas Gulf Sulphur Co.
U. S. Potash Co.
United Fertilizer Co.
Wilson & Toomer Fert. Co.
Woodward & Dickerson, Inc.

FERTILIZER MATERIALS— (Brokers)

Ashcraft-Wilkinson Co.
H. J. Baker & Bro.
Bradley & Baker
Samuel D. Keim
Alex. M. McIver & Son
Nitrogen Products, Inc.
Woodward & Dickerson, Inc.

FERTILIZER GRANULATING PLANTS

Atlanta Utility Works
Davidson-Kennedy Co.
Fertilizer Engineering & Equip. Co.
General Industrial Development Corporation
John J. Harte Co.
Lakeland Engineering Associates, Inc.
Link-Belt Co.
A. J. Sackett & Sons Co.
Stedman Foundry & Mach. Co., Inc.
Sturtevant Mill Co.

FERTILIZER PLANTS (See Complete Fertilizer Plants)

FILLERS & DRYERS
American Cyanamid Company
Agricultural Chemicals Division

Ashcraft-Wilkinson Co.
Alex. M. McIver & Son
Quaker Oats Co., Chemical Dept.
Universal Detergents, Inc.
Woodward & Dickerson, Inc.
Zonolite Company, Terra-Lite Division

FISH MEAL

(See Fish Tankage)

FISH OIL—(Brokers)

(See Fish Tankage)

FISH SCRAP

(See Fish Tankage)

FISH TANKAGE

Ashcraft-Wilkinson Company
H. J. Baker & Bro.
Bradley & Baker
J. C. Corrigan Co., Inc.
International Minerals & Chemical Corporation
Samuel D. Keim
Alex. M. McIver & Son
Summers Fertilizer Co., Inc.
Woodward & Dickerson, Inc.

FLASH DRYING SYSTEMS

Raymond Pulverizer Division, Combustion Engineering, Inc.

FLORIDA PEBBLE PHOSPHATE ROCK

The Amer. Agric. Chem. Corp.
American Cyanamid Company
Agricultural Chemicals Division
International Minerals & Chemical Corp.

A. F. PRINGLE & CO., INC.

141 East Bay St.

Manufacturers of

Charleston, S. C.

MERCO Brand Fertilizers
Superphosphate
Sulphuric Acid

DISTRIBUTORS OF ALL FERTILIZER MATERIALS

FLUID DRIVES

Link-Belt Co.

FOOT BREAKERS

Davidson-Kennedy Co.

FOUNDRIES

Baldwin Foundry & Machine Corp.

Link-Belt Co.

FUME SCRUBBING SYSTEMS

Fertilizer Engineering & Equip. Co.

John J. Harte Company

A. J. Sackett & Sons Co.

FUMIGANTS

American Cyanamid Co., Agric. Chemicals Div.

Mathieson Chemical Corporation

FUNGICIDES

The American Agricultural Chemical Company

Mathieson Chemical Corp.

Tennessee Corp.

GARBAGE TANKAGE GATES

(See Tankage)

(See Valves and Gates)

GEARS

Baldwin Foundry & Machine Corp.

Continental Gin Co.

Link-Belt Co.

GEARMOTOR

Link-Belt Co.

GELATINE

American Agricultural Chemical Co., The

GRANULAR-NITROGEN FERTILIZER

American Cyanamid Company

Agricultural Chemicals Div.

Mathieson Chemical Corporation

GRANULATED SUPERPHOSPHATE

The Davison Chemical Corp.

GRANULATORS

Link-Belt Co.

GRANULATION PLANTS

Link-Belt Co.

GRAVITY MIXERS

Atlanta Utility Works

GRINDERS

Kent Mill Division, Abbe Engineering Company, Inc.

GRINDING EQUIPMENT

Raymond Pulverizer Division, Combustion Engineering, Inc.

GRIT WASHERS

Link-Belt Co.

GYPSUM MACHINERY

Sturtevant Mill Co.

HAMMER MILLS

Stedman Foundry & Machine Co., Inc. Subsidiary of United Engineering & Fdy. Co.

HEAD BREAKERS

The Atlanta Utility Works

Davidson-Kennedy Co.

HERBICIDES

American Potash & Chemical Corp.

American Cyanamid Company

Agricultural Chemicals Division

Ashcraft-Wilkinson Co.

Lion Oil Co.

Mathieson Chemical Corporation

Monsanto Chemical Company

Nitrogen Division, Allied Chem. &

Dye Corp.

Pacific Coast Borax Co.

HOPPERS & SPOUTS

Baldwin Foundry & Machine Corp.

J. C. Corrigan Company, Inc.

Fertilizer Engineering & Equip. Co.

A. J. Sackett & Sons Co.

HOPPER LEVEL INDICATORS

Fertilizer Engineering & Equip. Co.

HOPPER, TRACK

Link-Belt Co.

HOPPER VALVES

Atlanta Utility Works

Baldwin Foundry & Machine Corp.

Fertilizer Engineering & Equip. Co.

Link-Belt Co.

HOPPERS—(Weighing)

Atlanta Utility Works

Continental Gin Co.

Fertilizer Engineering & Equip. Co.

Link-Belt Co.

Stedman Foundry & Machine Co., Inc. Subsidiary of United Engineering and Fdy. Co.

Link-Belt Co.

IDLERS—(Belt Conveyor)

Continental Gin Co.

Fertilizer Engineering & Equip. Co.

Link-Belt Co.

Stephens-Adamson Mfg. Co.

INSECTICIDES—(Agricultural)

American Agricultural Chem. Co.

American Cyanamid Co., Agric.

Chemicals Div.

Ashcraft-Wilkinson Co.

Commercial Solvents Corp., Agric. Div.

Hammond Bag & Paper Co.

Mackwin Co., The

Mathieson Chemical Corporation

Monsanto Chemical Company

Nitrogen Division, Allied Chem. &

Dye Corp.

Wilson & Toomer Fertilizer Co.

Woodward & Dickerson, Inc.

INSECTICIDE PLANTS

John J. Harte Company

LABORATORY EQUIPMENT

Raymond Pulverizer Division

Robertson Chemical Corp.

Royster Guano Co., F. S.

LAND PLASTER

Robertson Chemical Corp.

Royster Guano Co., F. S.

LEAD

Evans Metal Company

Southern Lead Burning Co.

LEAD ACID RESISTING FANS

Southern Lead Burning Co.

LEAD BURNING

Southern Lead Burning Co.

LEAD COILS

Southern Lead Burning Co.

LEAD COOLERS

Southern Lead Burning Co.

LIME

See Agricultural Lime

LIMESTONE

American Limestone Co.

Ashcraft-Wilkinson Co.

Longview Lime Corporation

Nitrogen Division, Allied Chemical

& Dye Corp.

Alex. M. McIver & Son

Willingham-Little Stone Company



Serving the Southeast!
CHEMICAL, ANTIMONIAL AND TELLURIUM
sheet lead and lead pipe

Evans Metal Company

Box 97 Northside Station • ATLANTA, GEORGIA • Elgin 4338

You'll enjoy greater customer satisfaction, more repeat business, greater profits when you see **QUALITY CONTROLLED** formulations of



INSECTICIDE CONCENTRATES

Dust-Free, Especially Formulated for Commercial Fertilizer Manufacturers

- **ALDRIN**
- **CHLORDANE**
- **DIELDRIN**
- **HEPTACHLOR**

We have several formulations of the above insecticides, each of which has been carefully researched, field tested, successfully used and endorsed by commercial fertilizer manufacturers.

We are prepared to give PROMPT, FREE assistance on the registration and labeling of commercial fertilizers containing our insecticide concentrates.

WRITE TODAY! Be Ready with a Dependable Source BEFORE the Season Arrives.

MACKWIN COMPANY

Manufacturing Chemists Since 1889

WINONA, MINNESOTA

Phone 2864

CHEMICAL

ROAD
STONE

"First With Strict Users Since 1874"

BUILDING

INDUSTRIAL

SOIL
LIME

AGRICULTURAL

MACHINERY—(Tankage)
J. C. Corrigan Co., Inc.
Stedman Foundry & Machine Co.,
Inc. Subsidiary of United Engi-
neering & Fdy. Co.
Sturtevant Mill Co.

MACHINISTS
Baldwin Foundry & Machine Corp.

MANGANESE SULPHATE
Tennessee Corp.

MAGNESIUM FLUOSILICATE
The American Agric. Chem. Co.

MAGNESIUM LIMESTONE
American Limestone Co.

MAGNESIUM SULPHATE
Tennessee Corp.

MAGNETIC SEPARATORS
Dings Magnetic Separator Co.

MAGNETS—LIFTING
Dings Magnetic Separator Co.

MANURE (Natural)
Armour Fertilizer Works
H. J. Baker & Bro.
Melson Fertilizer Co., Inc.

MANURE SALTS
(See Potash Materials)

MASONRY CEMENT (Mortor Mix)
Longview Lime Corp.

MARKING EQUIPMENT
Industrial Marking Equipment Co.

METALS—(Perforated)
Stedman Foundry & Machine Co.,
Inc. Subsidiary of United Engi-
neering & Fdy. Co.

METAL ROOFING & SIDING
Plasteel Products Corp.

MILLING & SCREENING UNITS
Fertilizer Engineering & Equip. Co.
The A. J. Sackett & Sons Co.

**MINERAL MIXTURES OF
MANGANESE**
Tennessee Corp.

MINERAL SALTS
Tennessee Corporation

MINING MACHINERY
Sturtevant Mill Co.

LIVER MEAL
Ashcraft-Wilkinson Co.
Woodward & Dickerson, Inc.

LOADERS
Contractors Machinery Co., Inc.

MACHINERY—(Abattoir)
Stedman Foundry & Machine Co.,
Inc. Subsidiary of United Engi-
neering & Fdy. Co.

MACHINERY—(Ammoniating)
Fertilizer Engineering & Equipment
Co.

Link-Belt Co.
Sackett & Sons Co., The A. J.
Sturtevant Mill Company

MACHINERY—(Crushing)
Abbe Engineering Company, Inc.,
Kent Mill Div.

Fertilizer Engineering & Equip. Co.
Link-Belt Co.

Raymond Pulverizer Division, Com-
bustion Engineering, Inc.

A. J. Sackett & Sons Co.
Stedman Foundry & Machine Co.,
Inc. Subsidiary of United Engi-
neering & Fdy. Co.

Sturtevant Mill Co.

MACHINERY—(Elevating)
J. C. Corrigan Co., Inc.

Fertilizer Engineering & Equip. Co.
Link-Belt Co.

Stephens-Adamson Mfg. Co.
Stedman Foundry & Machine Co.,

Inc. Subsidiary of United Engi-

neering & Fdy. Co.
Sturtevant Mill Co.

MACHINERY—(Fertilizer)
(See Fertilizer Machinery)

MACHINERY—(Mixing)
See Mixing Machinery

MACHINERY—(For Grinding)
Abbe Engineering Company, Kent
Mill Div.
Fertilizer Engineering & Equip. Co.
Raymond Pulverizer Div., Combustion
Engineering, Inc.
Stedman Foundry & Machine Co.,
Inc. Subsidiary of United Engi-
neering & Fdy. Co.
Sturtevant Mill Co.

MACHINERY
(For Handling Materials)
The Atlanta Utility Works
J. C. Corrigan Co., Inc.
Fertilizer Engineering & Equip. Co.
Link-Belt Co.
A. J. Sackett & Sons Co.
Stedman Foundry & Machine Co.,
Inc. Subsidiary of United Engi-
neering & Fdy. Co.
Stephens-Adamson Mfg. Co.
Sturtevant Mill Co.

MACHINERY
(For Power Transmission)
J. C. Corrigan Co., Inc.
Link-Belt Co.
Stephens-Adamson Mfg. Co.
Sturtevant Mill Co.

3.6 Lbs. Zinc .75 Lbs. Manganese

4.8 Lbs. Sulphur .05 Lbs. Copper

MAGNESIUM LIMESTONE

EACH TON OF MASCOT LIMESTONE
CONTAINS ABOUT

REPRESENTATIVE ANALYSIS

Calcium content —CaCO ₃	value	52.47%
Magnesium content —CaCO ₃	value	44.23%
Calcium Carbonate —Equivalence		96.70%

Box 2389

American Limestone Co.

Knoxville, Tenn.

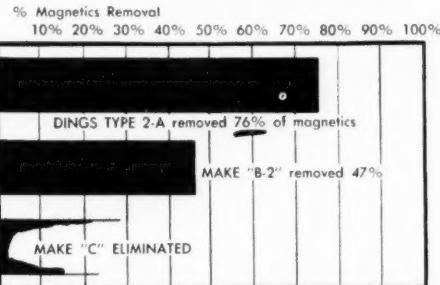


YOUR BEST

**Permanent
Magnetic Insurance --**

BY TEST:

THE new, extra-strong, non-electric Dings Perma-Plate Magnets are your best insurance against fires and explosions caused by tramp iron and here's proof:

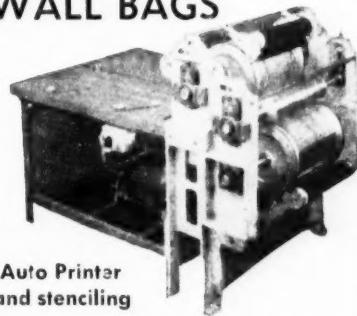


THESE are the actual results of tough tests conducted by one of the world's largest grain processors—in their own laboratories—with the new Dings Perma-Plates and two other makes of permanent plate magnets. This firm has standardized on Dings and you can see why. Write for details today. **DINGS MAGNETIC SEPARATOR CO., 4711 W. Electric Ave., Milwaukee 46, Wis.**

DINGS Magnets

**PRINT YOUR OWN
MULTIWALL BAGS**

**AS
YOU
NEED
THEM**



**Industrial's Auto Printer
Eliminates hand stenciling**

is suitable for imprinting information, addresses, marking, or whatever you may require on your containers or multi-wall bags. It is capable of printing as many as 2400 units per hour.

This is just one of Industrial's coding and marking machines designed specifically for your needs to assure more efficient marking and movement of materials on production lines. Marking equipment is also available for conveyor line use.

Let us help you—send us your marking problem, we will do the rest.

Write for catalog today.

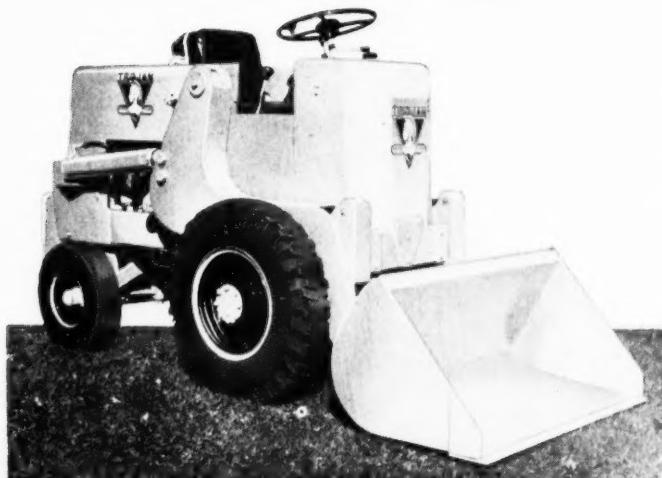
INDUSTRIAL MARKING EQUIPMENT CO.

Designers and Builders of Marking Equipment for Industry
Dept. C.F., 454 Baltic Street

BROOKLYN 17, N.Y.

MAIN 4-2601

For LOADS of things —



buy TROJAN

The Loadster is being talked about—and praised too—for its ability to load fast, travel fast, and dump fast. With Trojan's advanced design owners are assured of more tonnage per day. Here's why: bucket action independent of hoist . . . low load carrying position . . . reverse curve bucket arms . . . 12 cu. ft bucket . . . 31 H.P. engine. For more information about the Trojan Loadster LA-40 write to Dept. CF-3.

CONTRACTORS MACHINERY CO., Inc.

BATAVIA, NEW YORK, U.S.A.



TROJAN

MIXED FERTILIZERS

The American Agric. Chemical Co.
H. J. Baker & Bro.
Davison Chemical Corporation
International Ore & Fert. Corp.
Mathieson Chemical Corporation
A. F. Pringle & Co., Inc.
Southern Fertilizer & Chemical Co.
Southern States Phosphate & Fert. Company
Tennessee Corp.
Wilson & Toomer Fertilizer Co.

MIXERS—(Acid Phosphate)

The Atlanta Utility Works
Fertilizer Engineering & Equipment Company
Stedman Foundry & Machine Co., Inc. Subsidiary of United Engineering & Fdy. Co.
Sturtevant Mill Co.

MIXERS (Continuous)

Link-Belt Co.

MIXING MACHINERY

Abbe Engineering Company, Inc., Kent Mill Div.
The Atlanta Utility Works
Fertilizer Engineering & Equip. Co.
Link-Belt Co.
Gruenier Crusher & Pulverizer Co.
Stedman Foundry & Machine Co., Inc. Subsidiary of United Engineering & Fdy. Co.
Sturtevant Mill Co.
Worthington Corporation, Industrial Mixer Division

MIXING PANS

Stedman Foundry & Machine Co., Inc. Subsidiary of United Engineering & Fdy. Co.

MIXING PLOWS

Atlanta Utility Works

MIXING UNITS

The Atlanta Utility Works
Stedman Foundry & Machine Co., Inc. Subsidiary of United Engineering & Fdy. Co.
Sturtevant Mill Co.

MONOVEYOR SYSTEMS

Link-Belt Co.

MOTORS

Fertilizer Engineering & Equip. Co.

MULTIPLE HOPPER BATCHING SYSTEMS

The Atlanta Utility Works
J. C. Corrigan Co., Inc.
Fertilizer Engineering & Equipment Co.
The A. J. Sackett & Sons Co.

MURIATE OF POTASH

American Potash & Chem. Corp.
Bradley & Baker
International Minerals and Chemical Corporation
International Ore & Fert. Corp.
Potash Co. of America
Southwest Potash Corporation
Synthetic Nitrogen Products Corp.
United States Potash Co.
Woodward & Dickerson, Inc.

NATURAL ORGANIC NITROGEN

Bradley & Baker
Smith-Rowland Company
United Fertilizer Company
Woodward & Dickerson, Inc.

NITRATE NITROGEN SOLUTIONS

Nitrogen Division, Allied Chemical and Dye Corporation
H. J. Baker & Bro.
Commercial Solvents Corporation
Agricultural Division
Lion Oil Co.
Spencer Chemical Co.

NITRATE OF SODA

American Agric. Chemical Company (dealer)
Mathieson Chemical Corporation
Nitrogen Division, Allied Chemical and Dye Corporation
F. S. Royster Guano Co.

NITRIC ACID PLANTS

Chemical Construction Corp.
General Industrial Development Corp.
John J. Harte Company

NITROGEN

Allied Chemical and Dye Corporation
Nitrogen Division
American Cyanamid Company,
Agricultural Chemicals Division
H. J. Baker & Bro.
Commercial Solvents Corporation,
Agric. Chemical Div.
Lion Oil Co.
Mathieson Chemical Corporation
Nitrogen Products, Inc.
Synthetic Nitrogen Products Corp.
United Fertilizer Co.

NITROGEN SOLUTIONS

Allied Chemical and Dye Corporation
Nitrogen Division
H. J. Baker & Bro.
Commercial Solvents Corp.
Agric. Chemicals Div.
Lion Oil Co.
Spencer Chemical Company

NITROGENOUS MATERIALS

H. J. Baker & Bro.
Bradley & Baker
Alex. M. McIver & Son
Woodward & Dickerson, Inc.

NITROGENOUS TANKAGE

The American Agric. Chemical Co.
Ashcraft-Wilkinson Co.
H. J. Baker & Bro.
Bradley & Baker
Smith-Rowland Company
United Fertilizer Company
Woodward & Dickerson, Inc.

NITROLIME

See Fertilizer Materials

NITROPHOSPHATE PLANTS

Chemical Construction Corp.
General Industrial Development
John J. Harte Company
Link-Belt Co.

NODULIZERS

Link-Belt Co.

OIL FIRED DRYERS

The A. J. Sackett & Sons Co.
ORGANIC CONDITIONER
The Quaker Oats Co. Chemicals Dept.

ORE MILLING MACHINERY

Sturtevant Mill Co.

OYSTER SHELL MACHINERY

Sturtevant Mill Co.

PACKING HOUSE BY-PRODUCTS

(See Tankage)

PEANUT HULLS

Alex. M. McIver & Son

PHOSPHATE

Coronet Phosphate Co., A Division of Smith-Douglass Co., Inc.

PHOSPHATE MACHINERY

Atlanta Utility Works
Gruendler Crusher & Pulverizer Co.
Raymond Pulverizer Div., Combustion Engineering, Inc.

The A. J. Sackett & Sons Co.
Stedman Fdy. & Machine Co., Inc.
Subsidiary of United Engineering & Fdy. Co.

Sturtevant Mill Co.

PHOSPHATE MATERIALS

The American Agric. Chemical Co

PHOSPHATE ROCK

American Agric. Chemical Co.
American Cyanamid Co., Agric. Chemicals Div.
Armour Fertilizer Works
Ashcraft-Wilkinson Co.
Coronet Phosphate Company, A Division of Smith-Douglass Co., Inc.
The Davison Chemical Corp.
International Minerals and Chemical Corp.
International Ore & Fert. Corp.
Royster Guano Co., F. S. Woodward & Dickerson, Inc.

PHOSPHATE ROCK FLOATS

Ashcraft-Wilkinson Co.

PHOSPHODUST

American Agricultural Chemical Co.

PHOSPHORIC ACID

American Agricultural Chemical Co.
Monsanto Chemical Company

PHOSPHORIC ACID PLANTS

Chemical Construction Corp.
General Industrial Development Corp.
John J. Harte Company

PHOSPHORUS

American Agricultural Chemical Co.

PHOSPHORUS ELEMENTAL

The American Agricultural Chemical Co.

PHOSPHORUS PENTASULPHIDE

American Agricultural Chemical Co.



Selected for Your Standards of Quality
FROM EVERY CORNER OF THE WORLD...



POTASH

MURIATE
SULPHATE
NITRATE

NITROGEN

SULPHATE OF AMMONIA
AMMONIUM NITRATE
CALCIUM AMMONIUM NITRATE
UREA

...and ALL OTHER FERTILIZER and FEED MATERIALS

IMPORTERS • EXPORTERS • BROKERS • COMMISSION MERCHANTS

1873 - 80TH ANNIVERSARY - 1953



Woodward & Dickerson
Inc.



1400 SOUTH PENN SQUARE, PHILADELPHIA 2, PA., U.S.A.

TELEPHONE: LOCust 4-5600

Cable Address: "Woodward"

TELETYPE: PH109

PHOSPHORUS SEQUISULPHIDE

The Amer. Agric. Chem. Co.

PILLOW BLOCKS

Continental Gin Co.
Fertilizer Engineering & Equip. Co.
Link-Belt Co.
Stephens-Adamson Mfg. Co.

PINIONS

Baldwin Foundry & Machine Corp.

PLANT MECHANIZATION SYSTEMS

The Atlanta Utility Works
J. C. Corrigan Co., Inc.
Fertilizer Engineering & Equip. Co.
Link-Belt Co.
The A. J. Sackett & Sons Co.

PLUG AND SEAT VALVES

See Valves

POTASH MATERIALS

American Potash & Chemical Corp.
Ashcraft-Wilkinson Co.
H. J. Baker & Bro.
Bradley & Baker
International Minerals and Chemical Corporation
Alex. M. McIver & Son
Potash Company of America
Southwest Potash Corporation
United States Potash Co.

POTASH SALTS

American Agricultural Chemical Co.
American Potash & Chemical Corp.
Armour Fertilizer Works
Ashcraft-Wilkinson Co.
H. J. Baker & Bro.
Bradley & Baker
International Minerals and Chemical Corp.
Planters Fertilizer & Phosphate Co.
Synthetic Nitrogen Products Corp.
United States Potash Co.
Woodward & Dickerson, Inc.

POTASSIUM FLUOSILICATE

The Amer. Agric. Chem. Co.

POULTRY MANURE

(See Manure)

POWER TRANSMISSION EQUIPMENT

Continental Gin Company
Link-Belt Co.

PROCESSED SULPHUR

Mathieson Chemical Corporation

PULLERS. CAR

Link-Belt Co.

PULLEYS

Continental Gin Co.
Fertilizer Engineering & Equip. Co.
Link-Belt Co.
Stedman Foundry & Machine Co.,
Inc. Subsidiary of United Engineering & Fdy. Co.

PULVERIZERS

Atlanta Utility Works
Fertilizer Engineering & Equip. Co.
Gruendler Crusher & Pulverizer Co.
Link-Belt Co.
Raymond Pulverizer Division, Combustion Engineering, Inc.
The A. J. Sackett & Sons Co.
Stedman Foundry & Machine Co., Inc. Subsidiary of United Engineering & Fdy. Co.
Sturtevant Mill Co.

PULVERIZED-NITROGEN FERTILIZER

American Cyanamid Company
Agricultural Chemicals Division

PUMPS

Worthington Corporation, Industrial Mixer Division

RAPE & CASTOR MEAL

Ashcraft-Wilkinson Co.
H. J. Baker & Bro.
Bradley & Baker
Alex. M. McIver & Son
Woodward & Dickerson, Inc.

RED PHOSPHORUS

The American Agricultural Chemical Co.

REDUCER UNITS—(Speed)

Fertilizer Engineering & Equip. Co.
Link-Belt Co.
Stephens-Adamson Mfg. Co.

Charlotte

DUO-TESTED

Anhydrous Ammonia Tanks

for storage - application - transport

Charlotte Anhydrous Ammonia Tanks are of all-steel welded construction—265-lb. design working pressure.

Standard sizes 300, 500 and 1,000 gallon capacities for storage. 100 and 150 gallon capacity applicator tanks.

Skid and truck tanks also available.

All fittings stainless steel.

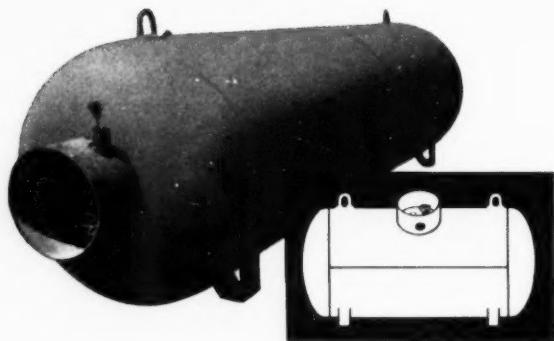


Write today for full details and prices.

CHARLOTTE TANK CORP.

Post Office Box 8037

CHARLOTTE 8, NORTH CAROLINA



REPAIR PARTS, REPLACEMENTS & CASTINGS

The Atlanta Utility Works
Baldwin Foundry & Machine Corp.
Sackett & Sons Co., The A. J.
Stedman Foundry & Machine Co., Inc.

RICE HULLS

Alex. M. McIver & Son

ROCK CRUSHERS

See Pulverizers

ROLLER MILLS

Raymond Pulv. Div. Combustion Engineering, Inc.

ROOFING & SIDING (Mica-Protected Metal)

Plasteel Products Corporation

SACK HOLDERS AND VALVES

Atlanta Utility Works
Baldwin Foundry & Machine Corp.
Stedman Foundry & Machine Co., Inc. Subsidiary of United Engineering & Fdy. Co.

SACKING MACHINES

See Bagging Machines

SACKING UNITS

The Atlanta Utility Works
The A. J. Sackett & Sons Co.

SALT CAKE

American Agricultural Chemical Co.

SCALES

(Including Automatic Bagging)

The Atlanta Utility Works
Automatic Scale Co., Inc.
Fertilizer Engineering & Equip. Co.
The A. J. Sackett & Sons Co.
Stedman Foundry & Machine Co., Inc. Subsidiary of United Engineering & Fdy. Co.
Sturtevant Mill Co.

SCOOPS, Power Unloading

Link-Belt Co.

SCRAPERS—(Drag)

Chattanooga Wheelbarrow Co.
Continental Gin Co.
J. C. Corrigan Co., Inc.

SCREENS

(Also See Vibrating Screens)

Atlanta Utility Works
J. C. Corrigan Co., Inc.
Fertilizer Engineering & Equip. Co.
Davidson-Kennedy Co.
Gruendler Crusher & Pulverizer Co.
Link-Belt Co.
The A. J. Sackett & Sons Co.
Stedman Foundry & Machine Co., Inc. Subsidiary of United Engineering & Fdy. Co.
Sturtevant Mill Co.

SECONDARY PLANT FOODS

American Potash & Chemical Corp.

International Minerals & Chemical Corporation
Monsanto Chemical Company
Pacific Coast Borax Company
Tennessee Corporation

SEEDS

International Ore & Fertilizer Corp.

SEPARATORS

Raymond Pulverizer Division, Combustion Engineering, Inc.
Sturtevant Mill Co.

SEWAGE SLUDGE

H. J. Baker & Bro.
SHAKERS, CAR
Link-Belt Co.

SHAKER SCREENS

See Screens

SHIPPING UNITS

The Atlanta Utility Works
Fertilizer Engineering & Equip. Co.
The A. J. Sackett & Sons Co.
Stedman Foundry & Machine Co., Inc. Subsidiary of United Engineering & Fdy. Co.
Sturtevant Mill Co.

SHUTTLE BELT CONVEYING SYSTEMS

The Atlanta Utility Works
J. C. Corrigan Co., Inc.

Fertilizer Engineering & Equipment Company
Link-Belt Co.
The A. J. Sackett & Sons Co.
Stephens-Adamson Mfg. Co.

Silent Chair Drives
Fertilizer Engineering & Equip. Co.
Link-Belt Co.
Sturtevant Mill Co.

SILOS—Air-Cell Concrete Stave Storage Silos with Conveyor Systems
J. C. Corrigan Co., Inc.
Fertilizer Engineering & Equipment Company

SKIDS—(Wagon or Barrell)
Chattanooga Wheelbarrow Co.

SKIP HOISTS
J. C. Corrigan Co., Inc.
Fertilizer Engineering & Equip. Co.
Link-Belt Co.

SODIUM BORATE CONCENTRATES
Pacific Coast Borax Company

SODIUM CHLORATE
Pacific Coast Borax Co.

SODIUM FLUORIDE
American Agricultural Chemical Co.

SODIUM NITRATE
Armour Fertilizer Works
Ashcraft-Wilkinson Co.
H. J. Baker & Bro.
Bradley & Baker
Mathieson Chemical Corp.
Nitrogen Division, Allied Chemical & Dye Corp.
A. F. Pringle & Co., Inc.
F. S. Royster Guano Co.
Woodward & Dickerson, Inc.

SODIUM SILICO FLUORIDE
American Agricultural Chemical Co.
Northern Chemical Industries, Inc.
(A subsidiary of Summers Fert. Co., Inc.)

SODIUM POLYBORATE
Pacific Coast Borax Co.

SODIUM PHOSPHATE
The American Agric. Chemical Co.

SOIL CONDITIONER
American Cyanamid Company
Agricultural Chemicals Division
Monsanto Chemical Co.

SPECIAL FABRICATIONS
Link-Belt Co.

SPEED REDUCER UNITS
Continental Gin Co.
Link-Belt Co.
Stephens-Adamson Mfg. Co.

SPROCKETS
Atlanta Utility Works

Baldwin Foundry & Machine Corp.
Fertilizer Engineering & Equip. Co.
Link-Belt Co.

STEAMED BONE MEAL
American Agricultural Chemical Co.
Woodward & Dickerson, Inc.

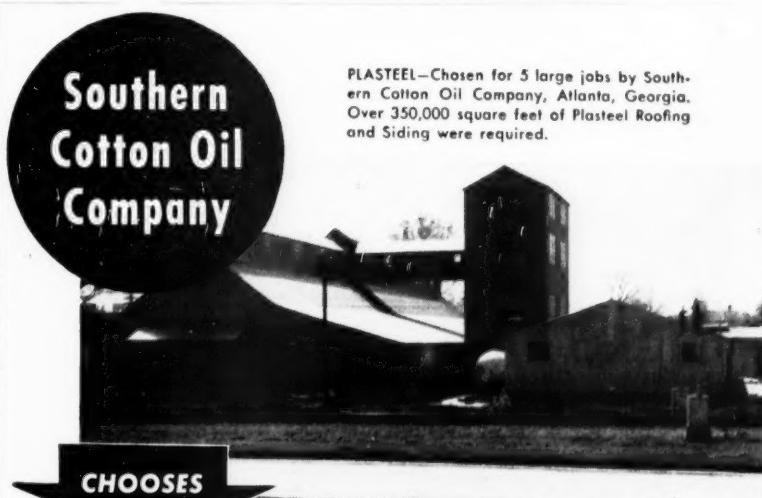
STEEL TANKS
Fertilizer Engineering & Equip. Co.

SULPHATE OF AMMONIA
Alabama By-Products Corp.
American Agricultural Chemical Co.
American Cyanamid Co.
Agric. Chemicals Co.
Ashcraft-Wilkinson Co.

H. J. Baker & Bro.
Bradley & Baker
Lion Oil Co.
Mathieson Chemical Corporation
Nitrogen Division, Allied Chemical & Dye Corp.
Nitrogen Products, Inc.
Northern Chemical Industries, Inc.
Piedmont Chemical Co.
A. F. Pringle & Co., Inc.
Summers Fert. Co., Inc.
United States Steel Corp. Coal Chemical Sales Division
Woodward & Dickerson, Inc.

SULPHUR
Ashcraft-Wilkinson Co.

PLASTEEL—Chosen for 5 large jobs by Southern Cotton Oil Company, Atlanta, Georgia. Over 350,000 square feet of Plasteel Roofing and Siding were required.



Plasteel
MICA PROTECTED STEEL

ROOFING and SIDING

Painting and replacing roofing and siding on fertilizer plants is an expensive operation. You can avoid costly maintenance by specifying Plasteel roofing and siding. Plasteel's exclusive mica coating prevents the deterioration of building sheets by retarding the drying out of volatile oils in the asphaltic-plastics coating — thus eliminating costly replacement. Plasteel's mica coating also eliminates periodic painting as it provides a durable silvery finish which retains its attractive appearance indefinitely. For complete details, mail coupon.

Plasteel is tested and classified by Associated Factory Mutuals Laboratories and Underwriters Laboratories.



Plasteel Products Corporation

Washington, Pennsylvania

Please send Plasteel Sample Data Sheet

Name _____ Title _____

Company _____

Street _____ City _____ State _____



Jefferson Lake Sulphur Co.
 Texas Gulf Sulphur Co., Inc.
SULPHATE OF POTASH
 American Potash & Chemical Corp.
 Ashcraft-Wilkinson Co.
 International Minerals & Chemical Corp.
 International Ore & Fert. Corp.
 Potash Company of America, Inc.
 Synthetic Nitrogen Products Corp.
SULPHURIC ACID
 American Agric. Chem. Co.
 Davison Chemical Corp.
 International Minerals and Chemical Corp.

Lion Oil Co.
 Alex. M. McIver & Son
 Mathieson Chemical Corporation
 Monsanto Chemical Company
 Northern Chemical Industries, Inc.
 Planters Fertilizer & Phosphate Co.
 A. F. Pringle & Co., Inc.
 Robertson Chemical Corporation
 F. S. Royster Guano Company
 Southern Fertilizer & Chemical Co.
 Southern States Phos. & Fertilizer Co.
 Summers Fertilizer Co., Inc.
 Tennessee Corp.
 Wilson & Toomer Fertilizer Co.

SULPHURIC ACID CHAMBER PLANTS
 John J. Harte Company
 Southern Lead Burning Co.

SULPHURIC ACID CONCENTRATORS
 Chemical Construction Corp.

SULPHURIC ACID PLANT CONSTRUCTION
 See Engineers

SUPERPHOSPHATES
 American Agricultural Chemical Co.

Armour Fertilizer Works
 Ashcraft-Wilkinson Co.
 H. J. Baker & Bro.
 Bradley & Baker
 The Davison Chem. Corp.
 International Minerals and Chemical Corp.

International Ore & Fert. Corp.
 Alex. M. McIver & Son
 Mathieson Chemical Corporation
 Northern Chemical Industries, Inc.
 Planters Fertilizer and Phosphate Co.

A. F. Pringle & Co., Inc.
 Robertson Chemical Corporation
 Royster Guano Co., F. S.
 Southern Fertilizer & Chemical Co.
 Southern States Phos. & Fertilizer Co.

Summers Fertilizer Co., Inc.
 Tennessee Corp.
 Wilson & Toomer Fertilizer Co.
 Woodward & Dickerson, Inc.

SUPERPHOSPHATE CARRIERS
 Sturtevant Mill Co.

SUPERPHOSPHATE MANUFACTURING PLANTS
 (See Complete Fertilizer Plants)

SUPERPHOSPHATE MIXERS
 Sturtevant Mill Co.

SUPERPHOSPHATE UNITS
 Atlanta Utility Works, The
 Fertilizer Engineering & Equip. Co.

SWING BAR PULVERIZERS
 The Atlanta Utility Works
 Davidson-Kennedy Co.

SYNTHETIC AMMONIA PLANTS
 Chemical Construction Corp.

TAILING MACHINES
 The Atlanta Utility Works
 The A. J. Sackett & Sons Co.
 Stedman Foundry & Machine Co.,
 Inc. Subsidiary of United Engineering & Fdy. Co.
 Sturtevant Mill Co.

TAKE-UPS
 Continental Gin Co.
 Fertilizer Engineering & Equip. Co.
 Link-Belt Co.

TANKAGE
 American Agricultural Chemical Co.
 Ashcraft-Wilkinson Co.
 H. J. Baker & Bro.
 Bradley & Baker
 Alex. M. McIver & Son



Hyster 20 with Load-Grab® attachment handles bags without use of pallets.

Load-Grab arms clamp on sides of bottom bags.

HYSTER Lift Trucks Increase Profits in the Fertilizer Industry

Hyster® versatility and low operating costs are reducing materials handling costs—often by as much as 75%! A Hyster Lift Truck with the proper attachment, speeds handling of loose materials, bags, barrels, boxes, and many other hard-to-handle shapes. Your Hyster Dealer is in constant touch with the fertilizer industry. Let him show you how Hyster Lift Trucks can save you money and increase your profits.

Be sure to call Hyster before you buy ANY Lift Truck

HYSTER COMPANY



2903-07 N.E. Clackamas Street, Portland 8, Oregon
 1011-07 Myers Street Danville, Illinois

THERE'S PROFIT IN
HYSTER
 POWER



ABC SULPHATE OF AMMONIA

Ideal for high analysis formulations and direct application. Contains 21% nitrogen. Dry and free flowing, thereby resisting caking. Our expanded facilities enable us to fill your orders promptly from a dependable source of supply.

ALABAMA BY-PRODUCTS CORPORATION

Phone 7-5171

Birmingham, Ala.

P. O. Box 354

Smith-Rowland Co.
United Fertilizer Co.
Woodward & Dickerson, Inc.

TANKAGE MACHINERY
J. C. Corrigan Co., Inc.
Gruendler Crusher & Pulverizer Co.
Stedman Foundry & Machine Co.,
Inc. Subsidiary of United Engineering & Fdy. Co.
Surtevant Mill Co.

TANKS
Charlotte Tank Corp.
R. D. Cole Mfg. Company

Fertilizer Engineering & Equip. Co.
Southern Lead Burning Co.

TARPAULINS
Bemis Bro. Bag Co.
Fulton Bag & Cotton Mills

TIES
St. Regis Sales Corporation

TOBACCO STEMS
Alex. M. McIver & Son

TOLUOL
Nitrogen Products, Inc.

TOWERS—(Acid)
See Acid Towers

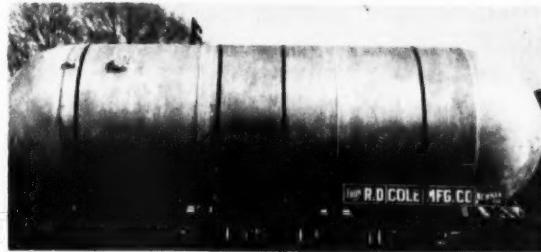
TRACE ELEMENTS
Tennessee Corporation

TRACK HOPPERS
J. C. Corrigan Co., Inc.

TRACTORS
Fertilizer Engineering & Equip., Co.
TRIPLE SUPERPHOSPHATE
See Superphosphates

TRISODIUM PHOSPHATE
The American Agricultural Chemical Company

"Cole" can furnish your requirements in tanks of Steel, Aluminum and Stainless-Steel.



ALUMINUM TANKS



STEEL COOLER

R. D. COLE MFG. CO.

NEWNAN

GA.

ESTAB. 1854

The SUMMERS FERTILIZER COMPANY, INC.

and Associated Companies

MANUFACTURERS, IMPORTERS
and EXPORTERS of

- Quality Mixed Fertilizers
- Superphosphate
- Sulphuric Acid
- Ammoniated Superphosphate



- Sulphate of Ammonia
- Sodium Silicofluoride
- Fish Meal
- Sardine Oil

HOME OFFICE

**Totman Building, 210 E. Redwood Street,
Baltimore 2, Md.**

BRANCHES AND PLANTS

BANGOR, ME.
SEASPORT, ME.
SANDY POINT, ME.

HOUlTON, ME.
MARS HILL, ME.
CARIBOU, ME.

EASTPORT, ME.
ST. STEPHEN, N. B.
GRAND FORKS, N. D.
SIOUX FALLS, S. D.

TRUCKS — (Industrial-Warehouse-Bag)

Chattanooga Wheelbarrow Co.
Hyster Company

TWINE

Bemis Bro. Bag Co.
Fulton Bag & Cotton Mills
Werthan Bag Corp.

UREA AND UREA PRODUCTS

Ashcraft Wilkinson Co.
Nitrogen Division Allied Chemical
& Dye Corporation

UREA PLANTS

Link-Belt Co.

VACUUM CONDENSING SYSTEMS

The A. J. Sackett & Sons Co.

VALVES (And Gates)

Atlanta Utility Works
Baldwin Foundry & Machine Corp.
Continental Gin Co.
J. C. Corrigan Co., Inc.
Fertilizer Engineering & Equip. Co.
The A. J. Sackett & Sons Co.
Southern Lead Burning Co.

VEGETABLE MEALS

Ashcraft-Wilkinson Co.
H. J. Baker & Bro.

VERMICULITE

Alex. M. McIver & Son

VIBRATING SCREENS

Atlanta Utility Works

Jefferson Lake Sulphur Company

Producers of Crude Sulphur

Clemens, Brazoria County, Texas
Mines: Long Point, Fort Bend County, Texas
Starks, Calcasieu Parish, Louisiana

General Office
1408 Whitney Building
New Orleans, Louisiana

Houston Office
665 San Jacinto Bldg.
Houston, Texas

SOUTHERN LEAD BURNING COMPANY

Complete Lead Installations for Chamber Sulphuric Acid Plants
—Glover & Gay Lussac Towers—Lead Fans—Acid Coolers & Coils—Lead Acid Diluting Equipment for Acidulating plants.

Lead Burners furnished for repair work.

P. O. Box 4627

Walnut 2576

ATLANTA 2, GEORGIA

WIRE CLOTH

Sturtevant Mill Co.

XYLOL

Nitrogen Products, Inc.

ZINC FLUOSILICATE

The American Agric. Chem. Co.

ZINC SULPHATE

Alex M. McIver & Son
Tennessee Corp.

WEEDKILLERS

See Herbicides

WEIGH HOPPER BATCHING SCALES

Atlanta Utility Works
Fertilizer Engineering & Equip. Co.

WEIGH LARRIES

J. C. Corrigan Co., Inc.
Fertilizer Engineering & Equip. Co.
Link-Belt Co.

WEIGHING HOPPERS & MACHINES

See Scales

WETTING AGENTS

American Cyanamid Company
Agricultural Chemicals Division
Nitrogen Division, Allied Chemical
& Dye Corporation

Monsanto Chemical Company

Tennessee Corporation

Universal Detergents, Inc.

WHEELBARROWS—(Steel, Wood)

Chattanooga Wheelbarrow Co.

WINCHES—(For Shifting Cars)

Link-Belt Co.

Stephens-Adamson Mfg. Co.

NOTES

NORTHERN CHEMICAL INDUSTRIES, INC.

SEARSFORT, MAINE

Manufacturers and Exporters of:

Sulphate of Ammonia

Sulphuric Acid

Superphosphate

Base Goods and Ammoniated Super
Aluminum Sulphate (Liquid and Dry)

Branch Office:

194 Exchange Street

Bangor, Maine

Home Office:

Totman Building
210 E. Redwood Street
Baltimore 2, Maryland

Baldwin Foundry & Machine Corp.

(Formerly Spalding Foundry Co.)

Post Office Box 1082 ATLANTA, GEORGIA

Founders • Machinists • Engineers

Specialize in Fertilizer Machinery, repairs and
replacements; Gears, Sprockets, Pinions, Bear-
ings, Hopper Valves, Bag Holders.

PIEDMONT CHEMICAL COMPANY

Manufacturers

Sulphate of Ammonia

Address: P. O. Box 67, Athens, Ga.

These Advertisers Can Serve You Well!

They Welcome Your Inquiries And The Chance To Help You.

Please mention Commercial Fertilizer Magazine.

Abbe Engineering Co., Inc.	126	Gascoyne & Co., Inc.	34	Plasteel Products Corp.	159
Alabama By-Products Corp. Agency—Sparrow Adv. Agency	161	General American Transportation Corp.	149	Agency—Dublin & Feldman, Inc.	
Albermarle Paper Mig. Co., The Agency—Lindsey & Co.	5	General Industrial Development Corp.	4	Potash Co. of America	11
Allied Chemical & Dye Corp.— Nitrogen Div. Agency—Albert Sidney Noble Advertising	Front Cover	Gruendler Crusher & Pulverizer Co.	150	Agency—L. E. McGivena & Co., Inc.	
American Agric. Chemical Co.	47	Agency—Christy Humburg Adv. Agency		Pringle & Co., Inc., A. F.	151
American Cyanimid Co. Agency—Hazard Adv. Co.	33			Quaker Oats Co.	8
American Potash & Chemical Corp.	Inside Back Cover			Agency—Rogers & Smith Advertising	
American Limestone Company	154	Hammond Bag & Paper Co.	42	Raymond Bag Co., The	66
Armour Fertilizer Works Agency—Liller, Neal & Battle Advertising	53	Agency—Walker & Downing		Agency—H. T. Shepherd Agency	
Aschcraft-Wilkinson Company	Back Cover	Harte Company, John J.	14	Raymond Pulv. Division [see Combustion	
Atlanta Utility Works Agency—Groves-Keen, Inc.	147	Agency—Mozeley, George & Woollen Adver-		Engineering, Inc.	74
Automatic Scale Co., Inc.	135	tising		Agency—Wamsley & Heer, Inc.	
Bagpak, Inc. Agency—Picard Adv. Company	50	Houston Laboratories	147	Robertson Chemical Corp.	126
Baker & Bros. H. J. Agency—Fuller & Smith & Ross, Inc.	7	Hyster Company	160	Royster Guano Co., F. S.	32
Baldwin Foundry & Machine Corp.	163	Agency—Foote, Cone & Belding		Sackett & Sons Co., A. J.	18
Bemis Bro. Bag Co. Agency—Gardner Advertising Co.	10	Industrial Marking Equipment Co., Inc.	155	Agency—Progressive Art Studios	
Bradley & Baker	127	International Minerals & Chemical Corp.	63	St. Regis Sales Corp.	26-27
Charlotte Tank Corp. Agency—Bennett-Evans Co.	158	Agency—C. Franklin Brown, Inc.		Agency—J. M. Hickerson, Inc. Advertising	
Chattanooga Wheelbarrow Co.	146	International Ore & Fertilizer Corp.	138	Shuey & Company, Inc.	147
Chemical Construction Corp. Agency—Michel-Cather, Inc.	73	International Paper Co. (see Bagpak Div.)	50	Smith-Rowland Company	3
Cole Mfg. Co., R. D. Agency—Burton E. Wyatt & Co.	161	Agency—Picard Adv. Co.		Agency—Lindsey & Company	
Combustion Engineering, Inc. (see	10	Jaite Company, The	Inside Front Cover	Southern Fert. & Chemical Co.	45
Raymond Pulv. Div.) Agency—Wamsley & Heer, Inc.	127	Jefferson Lake Sulphur Company	162	Southern Lead Burning Company	162
Commercial Solvents Corp. Agency—Fuller & Smith & Ross, Inc.	158	Keim, Samuel D.	147	Southern States Phos. & Fert. Co.	151
Continental Gin Company Agency—Sparrow Adv. Agency	146	Kent Mill Division (see Abbe Engr. Co.)	126	Southwest Potash Corp.	59
Contractors Machinery Co., Inc. Agency—Ellis Advertising Co.	73	Kraft Bag Corp.	29	Agency—Erwin, Wasey & Co., Inc.	
Coronet Phosphate Co. Agency—Spooner & Kriegel	161	Agency—Arthur A. Judson, Inc.		Spencer Chemical Co.	20
Corrigan Co., Inc., J. C.	163	Lakeland Engineering Associates, Inc.	147	Agency—Bruce B. Brewer & Co.	
Davidson-Kennedy Co. Agency—Robert E. Martin & Co.	70	Law & Company	147	Stedman Fdy. & Machine Co.	130
Davison Chemical Corp., The Agency—St. Georges & Keyes, Inc.	17	Link-Belt Co.	139	Agency—L. F. McCarthy & Co.	
Dings Magnetic Separator Co. Agency—Russell T. Gray, Inc.	155	Agency—Klau-Van Pietersom-Dunlap, Inc.		Stephens-Adamson Mfg. Co.	150
Equitable Paper Bag Co., Inc. Agency—Ehrlich & Newirth	55	Lion Oil Co.	39	Sturtevant Mill Co.	128
Evans Metal Company	152	Agency—Gardner Adv. Co.		Agency—Sutherland-Abbott	
Fertilizer Engineering & Equipment Co.	149	Longview Lime Corp.	154	Summers Fertilizer Co., Inc.	162
Fulton Bag & Cotton Mills Agency—Herbert Rogers Company	46	Louisville Dryers	149	Synthetic Nitrogen Products Corp.	142
		McIver & Son, Alex. M.	145	Agency—Frewald & Coleman Advertising	
		Mackwin Company	153	Tennessee Chemical Corp.	38
		Agency—Graves & Associates Advertising		Agency—Crawford & Porter, Inc.	
		Mathieson Chemical Corp.	35	Terra-Lite Div. Zonolite Co.	148
		Agency—Doyle, Kitchen & McCormick, Inc.		Texas Gulf Sulphur Co., Inc.	12
		Melson Fertilizer Co., Inc.	58	Agency—Saenger-Funnell, Inc.	
		Monsanto Chemical Co.	16	United Fertilizer Company	60
		Agency—Gardner Advertising Co.		Agency—Bert S. Gittens Advertising	
		Morris Testing Laboratories	147	United States Potash Co.	43
		National Lead Company	140	Agency—McCann-Erickson, Inc.	
		Nitrogen Division (Allied Chemical		United States Steel Corp.	13
		& Dye Corp.)	Front Cover	Agency—Batten, Barton, Durstine & Osborn,	
		Agency—Albert Sidney Noble Advertising		Inc.	
		Nitrogen Products, Inc.	126	Universal Detergents, Inc.	9
		Northern Chemical Industries, Inc. (a		Agency—Roger T. Case Associates	
		subsidiary of Summers Fert. Co., Inc.)	163	Werthan Bag Corporation	143
		Pacific Coast Borax Co.	144	Wiley & Company, Inc.	147
		Agency—Howard M. Irwin & Associates		Willington-Little Stone Co.	56
		Piedmont Chemical Co.	163	Wilson & Toomer Fert. Co.	65
		Planters Fert. & Phosphate Company	41	Agency—Newman, Lynde & Associates, Inc.	
				Woodward & Dickerson, Inc.	157
				Agency—The Roland G. E. Ullman Organ-	
				ization	
				Worthington Corp. Industrial Mixer Division	133
				Agency—James Thomas Chirurg Company	
				Zonolite Company	148
				Agency—Ruthrauff & Ryan, Inc. Advertising	

from arid wastes...

CHEMICALS FOR BUMPER CROPS

The American Potash plant at Trona, in the midst of the California desert area, is situated beside a vast stockpile of raw chemicals essential to agriculture. Under the brand names of *Trona* and *Eston* these chemicals in processed and refined forms, are playing an ever increasing part in growing better and bigger crops. Trona Potash is an essential element in mixed fertilizers. Trona Borax is used to correct soil deficiencies. Eston products include fumigants, defoliants, insecticides and herbicides.

In preparing soil, fertilizing plant growth and protecting it from the attack of destructive insect life, American Potash makes a vital contribution to the greatest industry of all—agriculture.

You can buy Trona-Eston agricultural chemicals with confidence—they are *proved* by many years of research and field usage.



AMERICAN POTASH AGRICULTURAL CHEMICALS

ESTON BRAND

ALKRON* (parathion formulations)
BROMOFUME* (soil fumigants)
ESTOMITE* (residual type miticide)
ESTONATE* (DDT dust concentrates and emulsified solutions)

*Trade Mark Registered

ESTONOX* (toxophene formulations)
TETRON* (Tetraethyl pyrophosphate formulations)
TUMBLEAF† (defoliants)
TUMBLE WEED† (herbicides)

TRONA[†] BRAND

Muriate of Potash
Sulphate of Potash
Borax, Technical
Sodium Pentaborate
TRONABOR[†] Pentahydrate
Borax (crude)

†Trade Mark American Potash & Chemical Corp.



American Potash & Chemical Corporation

Offices 3030 West Sixth Street, Los Angeles 54, California
122 East 42nd Street, New York 17, N. Y.

ESTON CHEMICALS DIVISION

3100 East 26th Street, Los Angeles 23, California

Plants Trona and Los Angeles, California

FERTILIZER MATERIALS

We cordially invite producers of Fertilizer, Chemical and Feed materials to discuss with us the economical distribution of their products through our facilities.

★ INSECTICIDAL AND INDUSTRIAL CHEMICALS

★ SULPHATE OF AMMONIA

★ ORGANIC AMMONIATES

★ SULPHUR & POTASH

VEGETABLE
OIL MEALS
& FEEDSTUFFS

ALKINSON CO.

Office
GEORGIA

Address
APT

No.

Jackson, Miss.
Columbus, Ohio